MOOG

VIDEOLARM

CamEvator™

Easily Service Camera at 80 feet

www.videolarm.com

Installation and Operation Instructions for the following models:

CV280	Lowering arm mount, easily and safely lowers camera down from up to 80 ft for servicing. Includes electronically controlled winch
CV280D	Lowering arm with surge and video protection

Dome / Camera System not included (Sold Separately)

Before attempting to connect or operate this product, please read these instructions completely.

81-IN5430
11-29-2011

IMPORTANT SAFEGUARDS

1 Read these instructions.

2 Keep these instructions.

3 Heed all warnings

4 Follow all instructions.

5 Do not use this apparatus near water.

6 Clean only with damp cloth.

7 Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.

8 Cable Runs- All cable runs must be within permissible distance.

9 Mounting - This unit must be properly and securely mounted to a supporting structure capable of sustaining the weight of the unit.

Accordingly:

a. The installation should be made by a qualified installer.

b. The installation should be in compliance with local codes.

c. Care should be exercised to select suitable hardware to install the unit, taking into account both the composition of the mounting surface and the weight of the unit.

10 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

11 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

12 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

13 Only use attachment/ accessories specified by the manufacturer.

14 Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.

15 Unplug this apparatus during lighting storms or when unused for long periods of time.

16 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled of objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Be sure to periodically examine the unit and the supporting structure to make sure that the integrity of the installation is intact. Failure to comply with the foregoing could result in the unit separating from the support structure and falling, with resultant damages or injury to anyone or anything struck by the falling unit.

UNPACKING

Unpack carefully. Electronic components can be damaged if improperly handled or dropped. If an item appears to have been damaged in shipment, replace it properly in its carton and notify the shipper.

Be sure to save:

1 The shipping carton and packaging material. They are the safest material in which to make future shipments of the equipment.

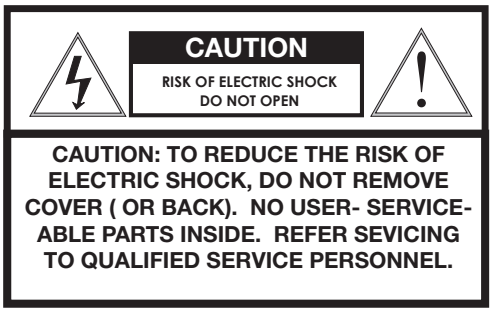
2 These Installation and Operating Instructions.

SERVICE

If technical support or service is needed, contact us at the following number:

TECHNICAL SUPPORT
AVAILABLE 24 HOURS
1 - 800 - 554 -1124

SAFETY PRECAUTIONS


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER- SERVICE-ABLE PARTS INSIDE. REFER SEVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with an arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of non-insulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk to persons.

Este símbolo se piensa para alertar al usuario a la presencia del “voltaje peligroso no-aislado” dentro del recinto de los productos que puede ser un riesgo de choque eléctrico.

Ce symbole est prévu pour alerter l’utilisateur à la presence “de la tension dangereuse” non-isolée dans la clôture de produits qui peut être un risque de choc électrique.

Dieses Symbol soll den Benutzer zum Vorhandensein der nicht-Isolier “Gefährdungsspannung” innerhalb der Produkteinschließung alarmieren die eine Gefahr des elektrischen Schlages sein kann.

Este símbolo é pretendido alertar o usuário à presença “di tensão perigosa non-isolada” dentro do cerco dos produtos que pode ser um risco de choque elétrico.

Questo simbolo è inteso per avvertire l’utente alla presenza “di tensione pericolosa” non-isolata all’interno della recinzione dei prodotti che può essere un rischio di scossa elettrica.

The exclamation point within an equilateral triangle is intended to alert the user to presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Este símbolo del punto del exclamation se piensa para alertar al usuario a la presencia de instrucciones importantes en la literatura que acompaña la aplicación.

Ce symbole de point d’exclamation est prévu pour alerter l’utilisateur à la presence des instructions importantes dans la littérature accompagnant l’appareil.

Dieses Ausruf Punktsymbol soll den Benutzer zum Vorhandensein de wichtigen Anweisungen in der Literatur alarmieren, die das Gerät begleitet.

Este símbolo do ponto do exclamation é pretendido alertar o usuário à presença de instruções importantes na literatura que acompanha o dispositivo.

Questo simbolo del punto del exclamaton è inteso per avvertire l’utente alla presenza delle istruzioni importanti nella letteratura che accompagna l'apparecchio.

USA PRIDE

Limited Warranty for Moog Videolarm Products

Moog Videolarm warrants these products to be free from defects in material or workmanship as follows:

PRODUCT CATEGORY	PARTS \ LABOR
All Enclosures and Electronics*	Five (5) Years
Poles/PolEvators™/CamEvator	Three (3) Years
Warrior Series™/Q-View™/IR Illuminators	Five (5) Years
SView Series™	Five (5) Years **6 months if used in auto scan/tour operation
Controllers	Five (5) Years
Power Supplies	Five (5) Years
EcoKit	Three (3) Years
Accessory Brackets	Five (5) Years
Liberty Dome	Three (3) Years
*DeputyDome™, NiteTrac™, Igloo Dome, PurgeDome™	Three (3) Years **6 months if used in auto scan/tour operation

During the labor warranty period, to repair the Product, Purchaser will either return the defective product, freight prepaid, or deliver it to Moog Videolarm Inc. Decatur GA. The Product to be repaired is to be returned in either its original carton or a similar package affording an equal degree of protection with a RMA # (Return Materials Authorization number) displayed on the outer box or packing slip. To obtain a RMA# you must contact our Technical Support Team at 800.554.1124, extension 101. Moog Videolarm will return the repaired Product freight prepaid to Purchaser. Moog Videolarm is not obligated to provide Purchaser with a substitute unit during the warranty period or at any time. After the applicable warranty period, Purchaser must pay all labor and/or parts charges.

The limited warranty stated in these product instructions is subject to all of the following terms and conditions.

TERMS AND CONDITIONS

1. NOTIFICATION OF CLAIMS: WARRANTY SERVICE: If Purchaser believes that the Product is defective in material or workmanship, then written notice with an explanation of the claim shall be given promptly by Purchaser to Moog Videolarm. All claims for warranty service must be made within the warranty period. If after investigation Moog Videolarm determines the reported problem was not covered by the warranty, Purchaser shall pay Moog Videolarm for the cost of investigating the problem at its then prevailing per incident billable rate. No repair or replacement of any Product or part thereof shall extend the warranty period of the entire Product. The specific warranty on the repaired part only shall be in effect for a period of ninety (90) days following the repair or replacement of that part or the remaining period of the Product parts warranty, whichever is greater.

2. EXCLUSIVE REMEDY: ACCEPTANCE: Purchaser's exclusive remedy and Moog Videolarm's sole obligation is to supply (or pay for) all labor necessary to repair any Product found to be defective within the warranty period and to supply, at no extra charge, new or rebuilt replacements for defective parts.

3. EXCEPTIONS TO LIMITED WARRANTY: Moog Videolarm shall have no liability or obligation to Purchaser with respect to any Product requiring service during the warranty period which is subjected to any of the following: abuse, improper use, negligence, accident, lightning damage or other acts of God (i.e., hurricanes, earthquakes), modification, failure of the end-user to follow the directions outlined in the product instructions, failure of the end-user to follow the maintenance procedures recommended by the International Security Industry Organization, written in product instructions, or recommended in the service manual for the Product. Furthermore, Moog Videolarm shall have no liability where a schedule is specified for regular replacement or maintenance or cleaning of certain parts (based on usage) and the end-user has failed to follow such schedule; attempted repair by non-qualified personnel; operation of the Product outside of the published environmental and electrical parameters, or if such Product's original identification (trademark, serial number) markings have been defaced, altered, or removed. Moog Videolarm excludes from warranty coverage Products sold AS IS and/or WITH ALL FAULTS and excludes used Products which have not been sold by Moog Videolarm to the Purchaser. All software and accompanying documentation furnished with, or as part of the Product is furnished "AS IS" (i.e., without any warranty of any kind), except where expressly provided otherwise in any documentation or license agreement furnished with the Product. Any cost associated with removal of defective product and installation of replacement product is not included in this warranty.

4. PROOF OF PURCHASE: The Purchaser's dated bill of sale must be retained as evidence of the date of purchase and to establish warranty eligibility.

DISCLAIMER OF WARRANTY

EXCEPT FOR THE FOREGOING WARRANTIES, Moog Videolarm HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO ANY AND/OR ALL IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND/OR ANY WARRANTY WITH REGARD TO ANY CLAIM OF INFRINGEMENT THAT MAY BE PROVIDED IN SECTION 2-312(3) OF THE UNIFORM COMMERCIAL CODE AND/OR IN ANY OTHER COMPARABLE STATE STATUTE. Moog Videolarm HEREBY DISCLAIMS ANY REPRESENTATIONS OR WARRANTY THAT THE PRODUCT IS COMPATIBLE WITH ANY COMBINATION OF NON-Moog Videolarm PRODUCTS OR NON-Moog Videolarm RECOMMENDED PRODUCTS PURCHASER MAY CHOOSE TO CONNECT TO THE PRODUCT.

LIMITATION OF LIABILITY

THE LIABILITY OF Moog Videolarm, IF ANY, AND PURCHASER'S SOLE AND EXCLUSIVE REMEDY FOR DAMAGES FOR ANY CLAIM OF ANY KIND WHATSOEVER, REGARDLESS OF THE LEGAL THEORY AND WHETHER ARISING IN TORT OR CONTRACT, SHALL NOT BE GREATER THAN THE ACTUAL PURCHASE PRICE OF THE PRODUCT WITH RESPECT TO WHICH SUCH CLAIM IS MADE. IN NO EVENT SHALL Moog Videolarm BE LIABLE TO PURCHASER FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY KIND INCLUDING, BUT NOT LIMITED TO, COMPENSATION, REIMBURSEMENT OR DAMAGES ON ACCOUNT OF THE LOSS OF PRESENT OR PROSPECTIVE PROFITS OR FOR ANY OTHER REASON WHATSOEVER.

Electrical & Mechanical Specifications

English

Power 120 VAC 10 A Max
Maximum weight limit of 35 lbs (15.9kg) may be attached to lowering device.
CamEvator may be lowered to a maximum safe operating distance of 75 feet (22.9 m).

Tools Required: Flat Head Screwdriver
Ceiling Support Wires(.14 - 10)

Español

Energía 120 VAC 10 A Max
El límite del peso máximo de 35 libras (15.9kg) se puede atar a bajar el dispositivo.
CamEvator se puede bajar a una distancia segura máxima del funcionamiento de 75 pies (22.9 m).

Herramientas Requeridas: Destornillador Principal Flat
Alambre De la Galga De la Ayuda Wires(.14 - 10)

Français

Puissance 120 VAC 10 A Max
La limite de poids maximum de 35 livres (15.9kg) peut être attachée à abaisser le dispositif.
CamEvator peut être abaissé à une distance sûre maximum d'opération de 75 pieds (22.9 m).

Outils Requis : Tournevis Principal Flat
Fil De Mesure De Soutien Wires(.14 - 10)

Deutsch

Energie 120 VAC 10 A Max
Höchstgewichtbegrenzung auf 35 lbs (15.9kg) kann zur Senkung der Vorrichtung angebracht werden.
CamEvator kann zu einem maximalen sicheren Betriebsabstand von 75 Fuß (22.9 m) gesenkt werden.

Werkzeuge Erfordert: Flacher Hauptschraubenzieher
Decke Unterstützungswires (.14 - 10)

Portuguese

Poder 120 VAC 10 A Max
O limite do peso máximo de 35 libras (15.9kg) pode ser unido a abaixar o dispositivo.
CamEvator pode ser abaixado a uma distância segura máxima do funcionamento de 75 pés (22.9 m).

Ferramentas Requeridas: Chave de fenda Principal Flat
Fio Do Calibre Da Sustentação Wires(.14 - 10)

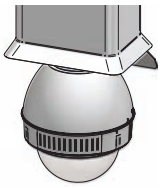
Italiano

Alimentazione 120 VAC 10 A Max
Un limite del peso massimo di 35 libbre (15.9kg) può essere attaccato ad abbassare il dispositivo.
CamEvator può essere abbassato ad una distanza sicura massima di funzionamento di 75 piedi (22.9 m).

Gli Attrezzi Hanno richiesto: Cacciavite Capo "Flat"
Legare Del Calibro Di Sostegno Wires(.14 - 10)

Contents of Box

Operation Specifications



English

Video transmission is available only when lowering mechanism (camera enclosure) has been docked in lowering arm apparatus.
After two continuous cycles (Up/Down, Up/Down) allow CamEvator to cool-down for 20 minutes before operating.

Español

La transmisión video está disponible solamente al bajar el mecanismo (recinto de la cámara) se ha atracado en aparato del brazo de baja.
Después de dos ciclos continuos (Up/Down, Up/Down), permita CamEvator fresco-abajo por 20 minutos antes de funcionar.

Français

La transmission visuelle est disponible seulement en abaissant le mécanisme (clôture d'appareil-photo) a été accouplée dans un appareillage de bras d'abaissement.
Après deux cycles continus (haut/bas, haut/bas), permettez CamEvator frais-vers le bas pendant 20 minutes avant l'opération.

Deutsch

Bildübertragung ist vorhanden, nur wenn sie Mechanismus (Kameraeinschließung) ist angekoppelt worden im Senkungarmapparat senkt.
Nach zwei ununterbrochenen Zyklen (Auf-/Ab--, Auf-/Ab), erlauben Sie CamEvator, das für 20 Minuten kühlist, bevor Sie funktionieren.

Portuguese

A transmissão video está disponível somente ao abaixar o mecanismo (cerco da câmera) foi entrada no instrumento do antebraço.
Após dois ciclos contínuos (Up/Down, Up/Down), permita CamEvator fresco-para baixo por 20 minutos antes de operar.

Italiano

La video trasmissione è disponibile soltanto quando abbassa il meccanismo (recinzione della macchina fotografica) è stata messa in bacino in apparecchiatura del braccio di abbassamento.
Dopo due cicli continui (Up/Down, Up/Down), permetta CamEvator freddo-giù per 20 minuti prima del funzionamento.

English

To prevent damage and/or personal injury, do not operate CamEvator device in wind gusts of 20 mph or higher.

Español

Para evitar daño y/o daños corporales, no funcione el dispositivo CamEvator en las ráfagas de viento de 20 mph o más arriba.

Français

Pour empêcher des dommages et/ou le dommage corporel, n'actionnez pas le dispositif CamEvator en rafales de vent de 20 M/H ou plus haut.

Deutsch

Um Schaden und/oder Personenschaden zu verhindern, betreiben Sie Vorrichtung nicht CamEvator in den Windboen von 20 MPH oder höher.

Portuguese

Para impedir dano e/ou ferimento pessoal, não opere o dispositivo CamEvator em ventanias de vento de 20 mph ou mais altamente.

Italiano

Per evitare il danno e/o la lesione personale, non faccia funzionare il dispositivo CamEvator in raffiche di vento di 20 mph o più su.

CAUTION

Cease Power

- IF THE PA40'S MOTOR STALLS, DO NOT CONTINUE TO APPLY POWER TO THE UNIT.

Cese la energía

- SI EL PA40' LAS PARADAS DEL MOTOR DE S, NO CONTINÚAN APLICANDO ENERGÍA A LA UNIDAD.

Cessez la puissance

- SI LE PA40' ; LES STALLES DE MOTEUR DE S, NE CONTINUENT PAS À METTRE SOUS TENSION À L'UNITÉ.

Hören Sie Energie auf

- WENN DER PA40 MOTOR FESTKLEMMT, FAHREN SIE NICHT FORT, ENERGIE AN DER MASSEINHEIT ANZUWENDEN.

Cesse o poder

- SE O MOTOR DE PA40 PARA, NÃO CONTINUE A APLICAR O PODER À UNIDADE.

Cessi il potere

- SE IL MOTORE DI PA40 SI ARRESTA, NON CONTINUI AD APPLICARE IL POTERE ALL'UNITÀ.

CAUTION — Proper Usage

- NEVER USE YOUR PA40 FOR LIFTING OR MOVING PEOPLE.

Uso apropiado

- NUNCA UTILICE SU PA40 PARA LEVANTAR O LA GENTE MÓVIL.

Utilisation appropriée

- N'EMPLOYEZ JAMAIS VOTRE PA40 POUR LE LEVAGE OU LES PERSONNES MOBILES.

Korrekter Verbrauch

- VERWENDEN SIE NIE IHR PA40 FÜR DAS ANHEBEN ODER DIE BEWEGLICHEN LEUTE.

Uso apropriado

- NUNCA USE SEU PA40 PARA O LEVANTAMENTO OU POVOS MOVENTES.

Uso adeguato

- NON USI MAI IL VOSTRO PA40 PER IL SOLLEVAMENTO O LA GENTE COMMOVENTE.

CAUTION — Clean Operating Area

- KEEP OPERATING AREA CLEAN. DO NOT ALLOW PEOPLE TO REMAIN IN THE AREA DURING LOWERING/ RAISING OPERATIONS. ALWAYS STAND CLEAR OF WIRE ROPE, CAMEVATOR MAIN UNIT AND JUNCTION BOX. IN THE UNLIKELY EVENT OF ANY COMPONENT FAILURE IT IS BEST TO BE OUT OF HARM'S WAY.

Limpie el área de funcionamiento
- MANTENGA EL ÁREA DE FUNCIONAMIENTO LIMPIA. NO PERMITA QUELA GENTE PERMANEZCA EN EL ÁREA DURANTE LA BAJA DE OPERACIONES DE AUMENTO. COLOQÚESE SIEMPRE CLARO DE CUERDA DE ALAMBRE, DE LA UNIDAD PRINCIPAL CAMEVATOR Y DE LA CAJA DE ENSAMBLADURA. EN EL ACONTECIMIENTO INVEROSÍMIL DE CUALQUIER FALTA COMPONENTE ES EL MEJOR ESTAR FUERA DE LA MANERA DEL DAÑO.

Nettoyez la région d'opération
- MAINTENEZ LE SECTEUR D'OPÉRATION PROPRE. NE PERMETTEZ PAS AUX PERSONNES DE RESTER DANS LE SECTEUR PENDANT L'ABAISSEMENT DES OPÉRATIONS AUGMENTANTES. TENEZ-VOUS TOUJOURS DÉGAGÉ DU CÂBLE MÉTALLIQUE, DE L'UNITÉ CAMEVATOR PRINCIPALE ET DE LA BOÎTE DE JONCTION. DANS L'ÉVÉNEMENT PEU PROBABLE DE N'IMPORTE QUEL ÉCHEC COMPOSANT IL EST LE MEILLEUR D'ÊTRE HORS DE LA MANIÈRE DU MAL.

Säubern Sie Bedienungsfläche
- HALTEN SIE BEDIENUNGSFLÄCHE SAUBER. ERLAUBEN SIE NICHT LEUTEN, IM BEREICH WÄHREND DER SENKUNG DER ANHEBENDEN BETRIEBE ZU BLEIBEN. STEHEN SIE IMMER VOM DRAHTSEIL, VOM HAUPTGERÄT CAMEVATOR UND VOM ANSCHLUSSKASTEN FREI. IM UNWAHRSCHEINLICHEN EREIGNIS JEDES TEILausfalls ZU SEIN IST AM BESTEN, AUS WEISE DES SCHADENS HERAUS.

Limpe a área de funcionamento
- MANTENHA A ÁREA DE FUNCIONAMENTO LIMPA. NÃO PERMITA QUE OS POVOS PERMANEÇAM NA ÁREA DURANTE A REDUÇÃO DE OPERAÇÕES DE LEVANTAMENTO. ESTEJA SEMPRE DESOBSTRUÍDO DA CORDA DE FIO, DA UNIDADE CAMEVATOR PRINCIPAL E DA CAIXA DE JUNÇÃO. NO EVENTO IMPROVÁVEL DE TODA A FALHA COMPONENTE É O MELHOR SER FORA DA MANEIRA DO DANO.

Pulisca la zona di funzionamento
- MANTENGA LA ZONA DI FUNZIONAMENTO PULITA. NON PERMETTA CHE LA GENTE RIMANGA NELLA ZONA DURANTE L'ABBASSAMENTO DEI FUNZIONAMENTI D'INNALZAMENTO. LEVI IN PIEDI SEMPRE CHIARO DELLA FUNE METALLICA, DELL'UNITÀ PRINCIPALE CAMEVATOR E DELLA SCATOLA DI GIUNZIONE. NELL'EVENTO IMPROBABILE DI TUTTO IL GUASTO COMPONENTE È MEGLIO DA ESSERE DAL SENSO DEL DANNO.

CAUTION — Warning Labels

- NEVER OBSCURE THE WARNING INSTRUCTION LABELS.

Etiquetas amonestadoras
- NUNCA OBSCUREZCA LAS ETIQUETAS DE INSTRUCCIÓN AMONESTADORAS.

Étiquettes d'avertissement
- N'OBSCURCISSEZ JAMAIS LES ÉTIQUETTES D'INSTRUCTION D'AVERTISSEMENT.

Warnende Aufkleber
- UNDEUTLICH MACHEN SIE NIE DIE WARNING ANWEISUNGS-AUFKLEBER.

Etiquetas de advertência
- NUNCA OBSCUREÇA AS ETIQUETAS DE INSTRUÇÃO DE ADVERTÊNCIA.

Etichette di avvertimento
- NON OSCURI MAI LE ETICHETTE DI ISTRUZIONE D'AVVERTIMENTO.

CAUTION — Heavy Gloves

- USE HEAVY LEATHER GLOVES WHEN HANDLING WIRE ROPE. DO NOT LET WIRE ROPE SLIDE THROUGH YOUR HANDS EVEN WHEN WEARING GLOVES.

Guantes pesados
- UTILICE LOS GUANTES DE CUERO PESADOS AL MANEJAR LA CUERDA DE ALAMBRE. NO DEJE LA CUERDA DE ALAMBRE RESBALAR A TRAVÉS DE SUS MANOS INCLUSO CUANDO USA GUANTES.

Gants lourds
- EMPLOYEZ LES GANTS EN CUIR LOURDS EN MANIPULANT LE CÂBLE MÉTALLIQUE. NE LAISSEZ PAS LE CÂBLE MÉTALLIQUE GLISSER PAR VOS MAINS MÊME LORSQUE PORTANT DES GANTS.

Schwere Handschuhe
- BENUTZEN SIE SCHWERE LEDERNE HANDSCHUHE, WENN SIE DRAHTSEIL BEHANDELN. LASSEN SIE DRAHTSEIL NICHT DURCH IHRE HÄNDE SCHIEBEN, SELBST WENN, HANDSCHUHE TRAGEND.

Luvas pesadas
- USE LUVAS DE COURO PESADAS AO SEGURAR A CORDA DE FIO. NÃO DEIXE A CORDA DE FIO DESLIZAR ATRAVÉS DE SUAS MÃOS MESMO QUANDO DESGASTANDO LUVAS.

Guanti pesanti
- USI I GUANTI DI CUOIO PESANTI QUANDO TRATTANO LA FUNE METALLICA. NON LASCI LA FUNE METALLICA FARE SCORRERE TRAMITE LE VOSTRE MANI ANCHE QUANDO PORTANDO I GUANTI.

CAUTION — Risk of Electric Shock

- TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OF CAMEVATOR UNIT. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

Riesgo de descarga eléctrica
- PARA REDUCIR EL RIESGO DE DESCARGA ELÉCTRICA, NO QUITE LA CUBIERTA DE LA UNIDAD CAMEVATOR. NINGUNAS PIEZAS ÚTILES DEL USUARIO ADENTRO. REFIERA EL MANTENIMIENTO A LOS PERSONALES DE SERVICIO CALIFICADOS.

Risque de décharge électrique
- POUR RÉDUIRE LE RISQUE DE DÉCHARGE ÉLECTRIQUE, N'ENLEVEZ PAS LA COUVERTURE DE L'UNITÉ CAMEVATOR. AUCUNES PIÈCES UTILES D'UTILISATEUR À L'INTÉRIEUR. RÉFÉREZ-VOUS L'ENTRETIEN AU PERSONNEL DE SERVICE QUALIFIÉ.

Risiko des Elektroschocks
- DAS RISIKO DES ELEKTROSCHOCKS ZU VERRINGERN, ENTFERNEN SIE NICHT ABDECKUNG DER MASSEINHEIT CAMEVATOR. KEINE BENUTZER-NÜTZLICHEN TEILE NACH INNEN. VERWEISEN SIE DIE INSTANDHALTUNG AUF QUALIFIZIERTES SERVICE-PERSONAL.

Risco de choque eléctrico
- PARA REDUZIR O RISCO DE CHOQUE ELÉCTRICO, NÃO REMOVA A TAMPA DA UNIDADE CAMEVATOR. NENHUMAS PEÇAS ÚTEIS DO USUÁRIO PARA DENTRO. REFIRA À CONSERVAÇÃO PESSOAIS DE SERVIÇO QUALIFICADOS.

Rischio di shock elettrico
- PER RIDURRE IL RISCHIO DI SHOCK ELETTRICO, NON RIMUOVA LA COPERTURA DELL'UNITÀ CAMEVATOR. NESSUN PARTI UTILI DELL'UTENTE ALL'INTERNO. FACCIA RIFERIMENTO L'ASSISTENZA AL PERSONALE DI SERVIZIO QUALIFICATO.

CAUTION — Risk of Injury

- TO PREVENT RISK OF INJURY, DO NOT PLACE HANDS NEAR OR INTO CAMEVATOR LOWERING PULLEY SYSTEM WHEN OPERATING.

- NEVER OPEN AND PLACE HANDS INTO THE COVER OF THE CAMEVATOR WHEN OPERATING THE UNIT.

Riesgo de lesión
- PARA PREVENIR EL RIESGO DE LESIÓN, NO PONGA LAS MANOS CERCA O EN DE CAMEVATOR QUE BAJA EL SISTEMA DE LA POLEA AL FUNCIONAR.

- NUNCA ABRA Y PONGA LAS MANOS EN LA CUBIERTA DEL CAMEVATOR AL FUNCIONAR LA UNIDAD.

Risque de dommages
- POUR EMPÊCHER LE RISQUE DE DOMMAGES, NE PLACEZ PAS LES MAINS PRÈS OU DANS DE CAMEVATOR ABAISSANT LE SYSTÈME DE POULIE EN FONCTIONNANT.

- N'OUVREZ JAMAIS ET PLACEZ LES MAINS DANS LA COUVERTURE DU CAMEVATOR EN ACTIONNANT L'UNITÉ.

Risiko der Verletzung
- RISIKO DER VERLETZUNG ZU VERHINDERN, SETZEN SIE HÄNDE NICHT NAHE ODER IN CAMEVATOR, DAS RIEMENSCHEIBEN-SYSTEM BEIM FUNKTIONIEREN SENKT.

- NIE ÖFFNEN SIE UND SETZEN SIE HÄNDE IN DIE ABDECKUNG DES CAMEVATOR, WENN SIE DIE MASSEINHEIT LAUFEN LASSEN.

Risco de ferimento
- PARA IMPEDIR O RISCO DE FERIMENTO, NÃO COLOC AS MÃOS PERTO OU EM CAMEVATOR QUE ABAIXA O SISTEMA DA POLIA AO OPERAR-SE.

- NUNCA ABRA E COLOC AS MÃOS NA TAMPA DO CAMEVATOR AO OPERAR A UNIDADE.

Rischio di ferita
- PER IMPEDIRE IL RISCHIO DI FERITA, NON DISPONGA LE MANI VICINO O IN CAMEVATOR CHE ABBASSA IL SISTEMA DELLA PULEGGIA QUANDO FUNZIONANO.

- MAI APRA E NON DISPONGA LE MANI NELLA COPERTURA DEL CAMEVATOR QUANDO AZIONANO L'UNITÀ.

CAUTION — Docking

- Before docking make sure there are no twist or obstructions between CAMEVATOR and the carriage.

Muelle
- Antes de que atraque cerciórese de no hay torcedura u obstrucciones entre CAMEVATOR y el carro.

Amarrage
- Avant que s'accouplant assuriez-vous il n'y a aucune torsion ou obstruction entre CAMEVATOR et le chariot.

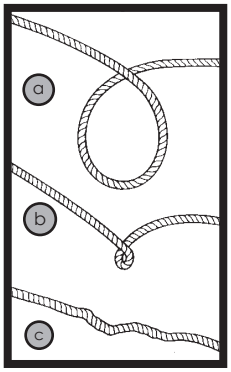
Ankern
- Bevor Sie sicherstellen Sie ankoppeln, gibt es keine Torsion oder Hindernisse zwischen CAMEVATOR und dem Wagen.

Embarcadouro
- Antes que entrando se certifique não há nenhuma torção ou obstrução entre CAMEVATOR e a carruagem.

Aggancio
- Prima che mettendosi in bacino assicuri non ci sono torsione o ostruzioni fra CAMEVATOR ed il carrello.

CAUTION — Wire Kinks

- PREVENT KINKS BEFORE THEY OCCUR.

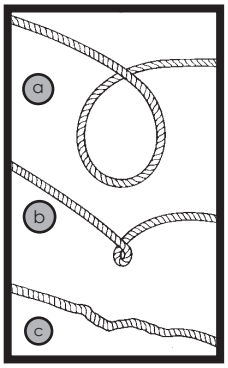


a. This is the start of a kink. At this time, the wire rope should be straightened.

b. The wire rope was pulled and the loop has tightened to a kink. The wire rope is now permanently damaged and must be replaced.

c. Kinking causes the wire strands under the greatest tension to break and thus reduces the load capacity of the wire rope. The wire rope must be replaced.

Torceduras del alambre
- PREVENGA LAS TORCEDURAS ANTES DE QUE OCURRAN.

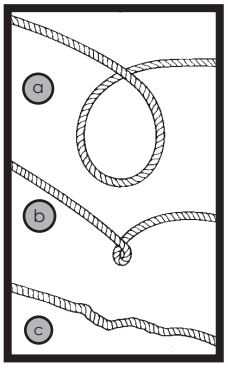


a. Éste es el comienzo de una torcedura. En este tiempo, la cuerda de alambre debe ser enderezada.

b. La cuerda de alambre fue tirada y el lazo ha apretado a una torcedura. La cuerda de alambre ahora se daña y debe permanentemente ser substituida.

c. El enroscarse hace los filamentos de alambre bajo tensión más grande romperse y reduce así la capacidad de carga de la cuerda de alambre. La cuerda de alambre debe ser substituida.

Replis de fil
- EMPÊCHEZ LES REPLIS AVANT QU'ILS SE PRODUISENT.

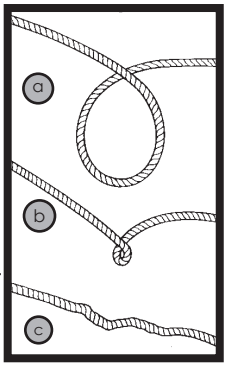


a. C'est le début d'un repli. Actuellement, le câble métallique devrait être redressé.

b. Le câble métallique a été tiré et la boucle a serré à un repli. Le câble métallique maintenant est de manière permanente endommagé et doit être remplacé.

c. Le vrillement fait casser les torons métalliques sous la plus grande tension et réduit ainsi la capacité de charge du câble métallique. Le câble métallique doit être remplacé.

Draht-Schleifen
- VERHINDERN SIE SCHLEIFEN, BEVOR SIE AUFTRETEN.



a. Dieses ist der Anfang einer Schleife. Diesmal sollte das Drahtseil gerade gerichtet werden.

b. Das Drahtseil wurde gezogen und die Schleife hat zu einer Schleife festgezogen. Das Drahtseil wird jetzt dauerhaft geschädigt und muss ersetzt werden.

c. Das Knick veranlaßt die Drahtstränge unter der größten Spannung zu brechen und verringert folglich die Nutzlast des Drahtseiles. Das Drahtseil muss ersetzt werden.

CAUTION — Wire Kinks

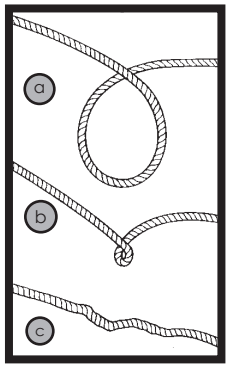
Continued

Torções do fio
- IMPEÇA TORÇÕES ANTES QUE OCORRAM.

a. Este é o começo de uma torção. Neste tempo, a corda de fio deve ser endireitada.

b. A corda de fio foi puxada e o laço apertou a uma torção. A corda de fio permanentemente é danificada agora e deve ser substituída.

c. Torcer-se faz com que as costas de fio sob a grande tensão quebrem e reduz assim a capacidade de carga da corda de fio. A corda de fio deve ser substituída.

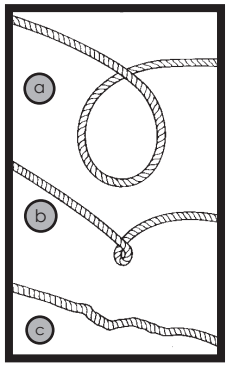


Nodi del legare
- IMPEDICA I NODI PRIMA CHE ACCADANO.

a. Ciò è l'inizio di un nodo. Attualmente, la fune metallica dovrebbe essere raddrizzata.

b. La fune metallica è stata tirata ed il ciclo ha stretto ad un nodo. La fune metallica ora permanentemente sarà danneggiata e dovrà essere sostituita.

c. L'annodamento induce i trefoli nell'ambito di più grande tensionamento a rompersi e così riduce la capienza di carico della fune metallica. La fune metallica deve essere sostituita.



CAUTION — LABELS

- WATCH YOUR FINGERS AND HANDS

- ELECTRICAL CURRENT KEEP AWAY

ETIQUETAS
- MIRE SUS DEDOS Y MANOS
- SUBSISTENCIA DE LA CORRIENTE ELÉCTRICA LEJOS

ÉTIQUETTES
- OBSERVEZ VOS DOIGTS ET MAINS
- SUBSISTANCE DE COURANT ÉLECTRIQUE LOIN

AUFKLEBER
- PASSEN SIE IHRE FINGER UND HÄNDE AUF
- ELEKTRISCHER STROM-UNTERHALT WEG

ETIQUETAS
- PRESTE ATENÇÃO A SEUS DEDOS E MÃOS
- SUSTENTO DA CORRENTE ELÉTRICA AFASTADO

ETICHETTE
- GUARDI LE VOSTRE BARRETTE E MANI
- CONSERVAZIONE DELLA CORRENTE ELETTRICA VIA

CAUTION — Inspection

- INSPECT WIRE ROPE AND EQUIPMENT FREQUENTLY. A FRAYED WIRE ROPE WITH BROKEN STRANDS SHOULD BE REPLACED IMMEDIATELY.

Inspección
- EXAMINE LA CUERDA Y EL EQUIPO DE ALAMBRE CON FRECUENCIA. UNA CUERDA DE ALAMBRE RAÍDA CON LOS FILAMENTOS QUEBRADOS SE DEBE SUBSTITUIR INMEDIATAMENTE.

Inspection
- INSPECTEZ LE CÂBLE MÉTALLIQUE ET L'ÉQUIPEMENT FRÉQUEMMENT. UN CÂBLE MÉTALLIQUE FRANGÉ AVEC LES RIVES CASSÉES DEVRAIT ÊTRE REMPLACÉ IMMÉDIATEMENT.

Kontrolle
- KONTROLLIEREN SIE DRAHTSEIL UND AUSRÜSTUNG HÄUFIG. EIN AUSGEFRANSTES DRAHTSEIL MIT DEFEKTEN STRÄNGEN SOLLTE SOFORT ERSETZT WERDEN.

Inspeção
- INSPECIONE A CORDA E O EQUIPAMENTO DE FIO FREQÜENTEMENTE. UMA CORDA DE FIO DESGASTADA COM COSTAS QUEBRADAS DEVE SER SUBSTITUÍDA IMEDIATAMENTE.

Controllo
- CONTROLLI FREQUENTEMENTE LA FUNE METALLICA E L'APPARECCHIATURA. UNA FUNE METALLICA SFILACCIATA CON I FILI ROTTI DOVREBBE ESSERE SOSTITUITA IMMEDIATAMENTE.

CAUTION — * * Keeping dry

- Ensure control box connector (RJ45) stays dry and closed.
- If connector gets wet it may cause CamEvator to opperate erraticly.

El mantener seco
- Asegure las estancias del conectador de la caja de control (RJ45) secas y cerradas.
- Si el conectador consigue mojado él puede hacer CamEvator funcionar irregularmente.

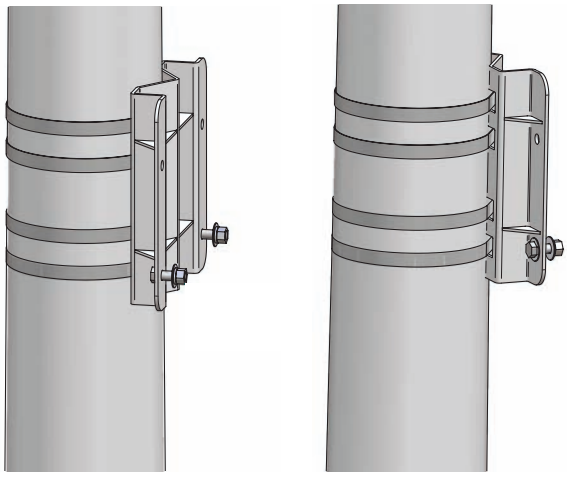
Garder au sec
- Assurez les séjours du connecteur de boîte de commande (RJ45) secs et fermés.
- Si le connecteur devient humide il peut faire fonctionner CamEvator sans ordre.

Trocken halten
- Stellen Sie die trockenen und geschlossenen Aufenthalte des Steuerkastenverbindungsstücks (RJ45) sicher.
- Wenn Verbindungsstück es kann CamEvator veranlassen, erratisch zu funktionieren naß erhält.

Mantimento seco
- Assegure as estadas do conector da caixa de controle (RJ45) secas e fechados.
- Se o conector começ molhado ele pode fazer com que CamEvator se opere erraticamente.

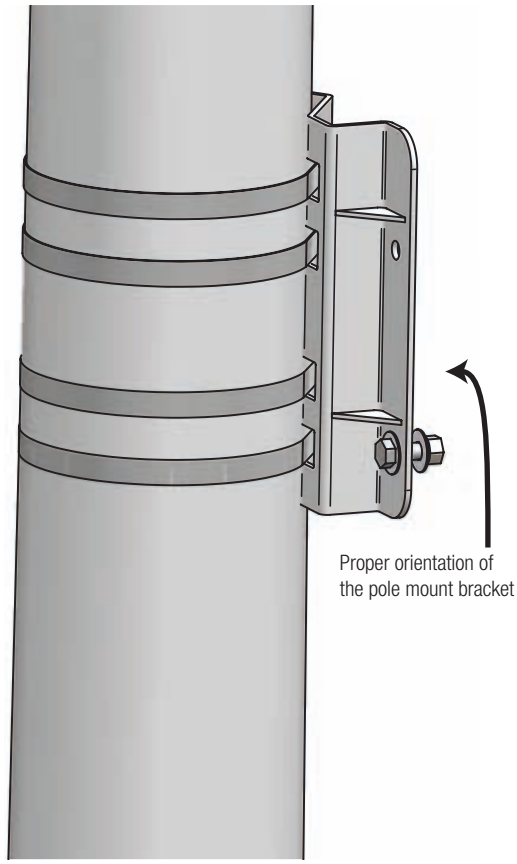
Conservazione asciutto
- Accerti i soggiorni del connettore della cassetta di controllo (RJ45) asciutti e chiusi.
- Se il connettore ottiene bagnato esso può indurre CamEvator a funzionare irregolarmente.

1



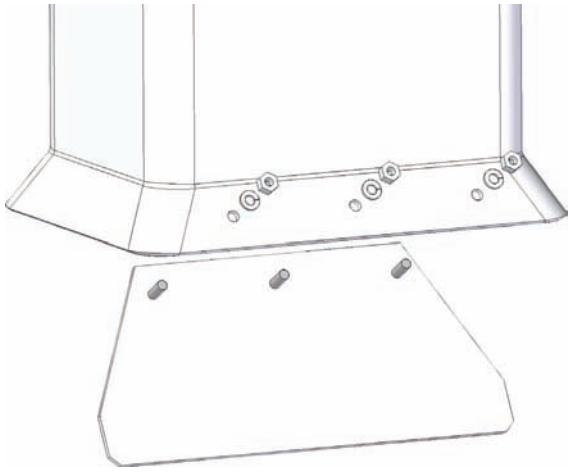
Position lower mounting bolts, washers and nuts as shown above. Thread the nuts until flush with bolt ends.

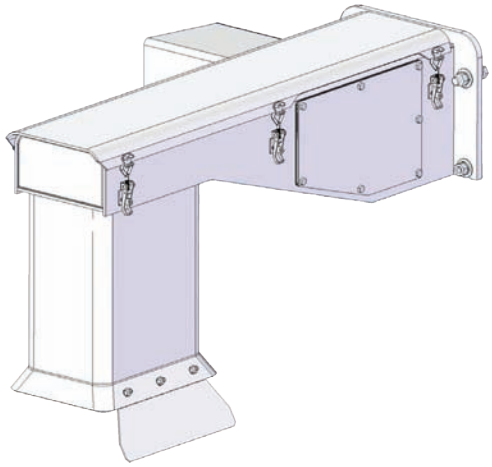
- Coloque pernos, arandelas y tuercas más bajos de montaje como se muestra arriba. Rosque las tuercas hasta rubor con los extremos de perno.
- Placez les boulons de fixation, les rondelles et les écrous inférieurs comme montré ci-dessus. Filetez les écrous jusqu'à l'éclat avec des extrémités de boulon.
- Bringen Sie unterere Befestigungsbolzen, Unterlegscheiben und Nüsse wie gezeigt oben in Position. Verlegen Sie die Nüsse bis bündiges mit Schraubbolzenenden.
- Posicione uns mais baixos parafusos, arruelas e porcas de montagem como mostrado acima. Rosqueie as porcas até o resplendor com extremidades de parafuso.
- Posizioni i bulloni, le rondelle ed i dadi più bassi di attacco come indicato sopra. Filetti i dadi fino ad a livello dell'estremità di bullone.



Mounting Sway Plate

2

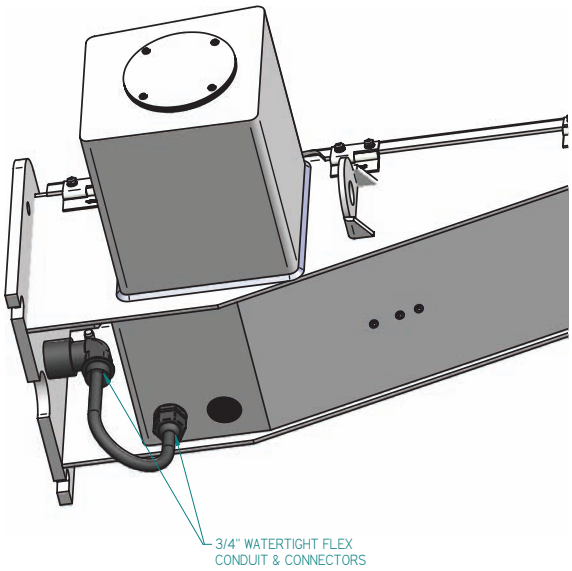


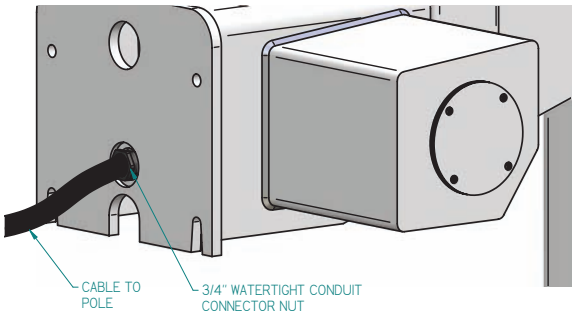


Attach sway plate with the appropriate hardware as shown.

- Ate la placa del sacudimiento con el hardware apropiado como se muestra.
- Attachez le plat de balancement avec le matériel approprié comme montré.
- Bringen Sie Einflussplatte mit der passenden Hardware wie gezeigt an.
- Una a placa do balanço com a ferragem apropriada como mostrada.
- Attacchi il piatto di ondeggiamento con i fissaggi adatti come indicati.

3

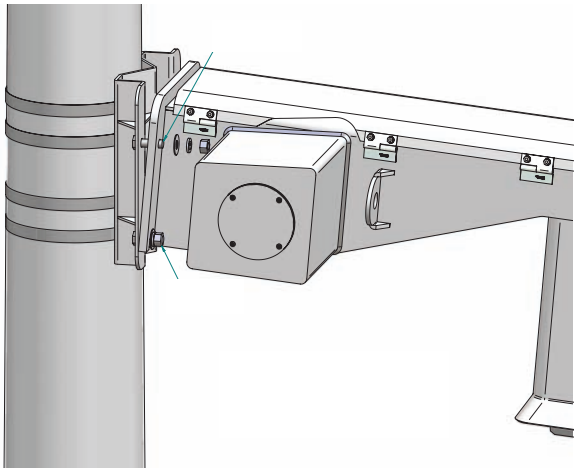




Route the watertight conduit connector as shown.

- Encamine el conectador hermético del conducto como se muestra.
- Conduisez le connecteur imperméable à l'eau de conduit comme montré.
- Verlegen Sie das wasserdichte Rohrverbindungsstück wie gezeigt.
- Distribua o conector à prova d'água da canalização como mostrado.
- Diriga il connettore a tenuta d'acqua del condotto come indicato.

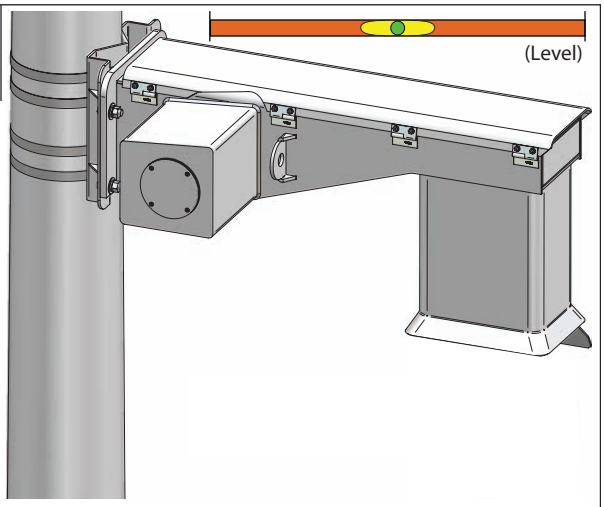
4



Rest the PA40, lower mounting slots on the mounting bolts of the adapter plate. Insert upper bolts, washers and nuts, then tighten all (4) bolts

- Recline el PA40, ranuras de montaje más bajas en los pernos de montaje de la placa de adaptador. Inserte los pernos, las arandelas y las tuercas superiores, después apriete (4) los pernos
- Reposez le PA40, fentes de support inférieures sur les boulons de fixation de la plaque adaptrice. Insérez les boulons, les rondelles et les écrous supérieurs, puis serrez chacun des (4) boulons
- Stehen Sie das PA40, unterere Befestigungsschlitze in den Befestigungsbolzenn der Einbauplatte still. Setzen Sie obere Schraubbolzen, Unterlegscheiben und Nüsse ein, dann ziehen Sie alle (4) Schraubbolzen fest
- Descanse o PA40, uns mais baixos entalhes de montagem nos parafusos de montagem da placa de adaptador. Introduza os parafusos, arruelas e porcas superiores, a seguir aperte todos os (4) parafusos
- Riposi il PA40, scanalature di montaggio più basse sui bulloni di attacco del piatto di adattatore. Inserisca i bulloni, le rondelle ed i dadi superiori, quindi stringa tutti (4) si serra

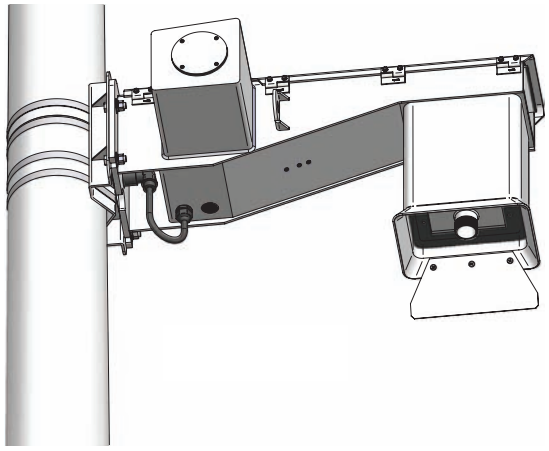
5



Use a standard level to ensure the horizontal alignment of the unit. If necessary, place washers or shims between lowering unit and adapter bracket

- Utilice un nivel estándar para asegurar la alineación horizontal de la unidad. En caso de necesidad, arandelas del lugar o calzas entre la baja de la unidad y del soporte del adaptador
- Employez un niveau standard pour assurer l'alignement horizontal de l'unité. Au besoin, rondelles d'endroit ou cales entre abaisser l'unité et la parenthèse d'adapteur
- Benutzen Sie ein Standardniveau, um die horizontale Ausrichtung der Maßeinheit sicherzustellen. Bei Bedarf Platzunterlegscheiben oder Messplättchen zwischen der Senkung der Maßeinheit und des Adapterhaltewinkels
- Use um nível padrão para assegurar o alinhamento horizontal da unidade. Caso necessário, arruelas do lugar ou calços entre a redução da unidade e do suporte do adaptador
- Usi un livello standard per accertare l'allineamento orizzontale dell'unità. Se necessario, rondelle del posto o spessori fra l'abbassamento unità e della staffa dell'adattatore

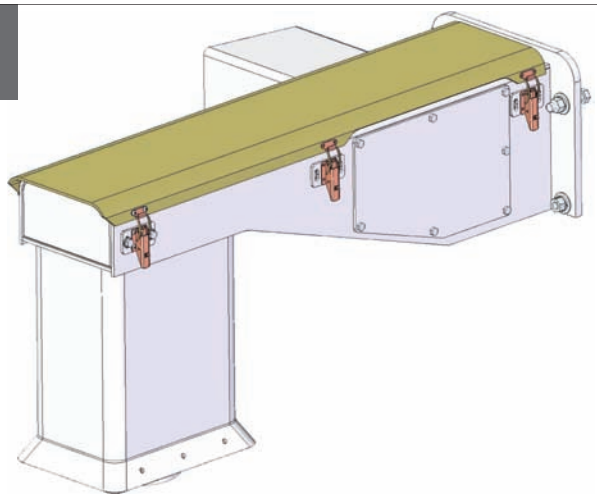
6



Complete electrical connections

- Termine las conexiones eléctricas
- Accomplissez les raccordements électriques
- Schließen Sie elektrische Anschlüsse ab
- Termine conexões elétricas
- Completi i collegamenti elettrici

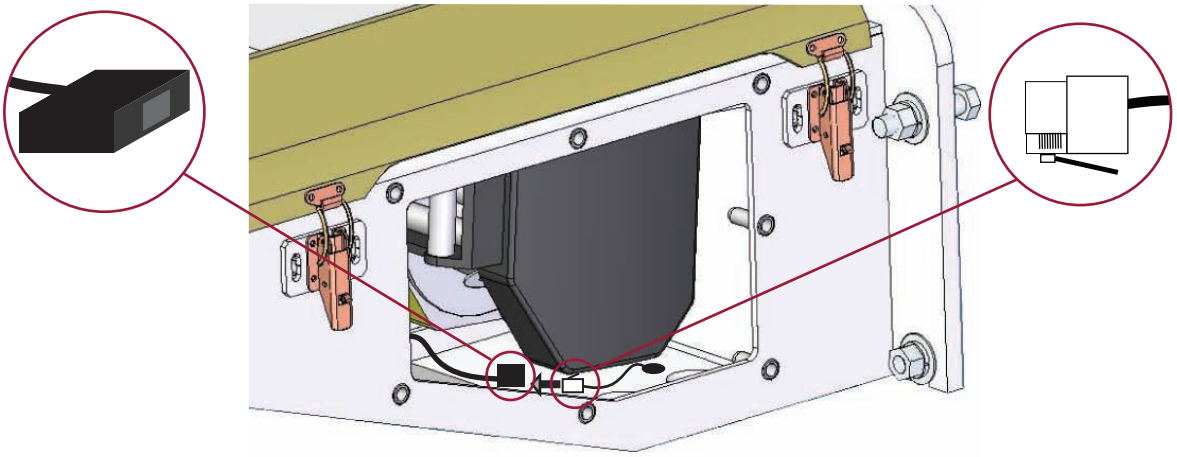
7



It is recommended to ground the outer enclosure of the arm. Attach to bottom right bolt. Use appropriately sized cable.

- Se recomienda para moler el recinto externo del brazo. Fijación al perno de la derecha inferior. Utilice el cable apropiadamente clasificado.
- On lui recommande de rectifier la clôture externe du bras. Attache au boulon de droite inférieure. Employez le câble convenablement classé.
- Es wird empfohlen, um die äußere Einschließung des Armes zu reiben. Befestigung zum Schraubbolzen des unteren Rechtes. Benutzen Sie passend sortiertes Kabel.
- Recomenda-se mmoer o cerco exterior do braço. Anexo ao parafuso da direita inferior. Use o cabo apropriadamente feito sob medida.
- È suggerito per frantumare la recinzione esterna del braccio. Attaccatura al bullone di destra inferiore. Usi il cavo giustamente graduato.

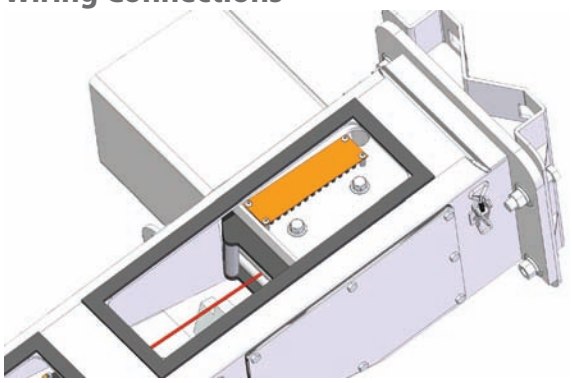
8

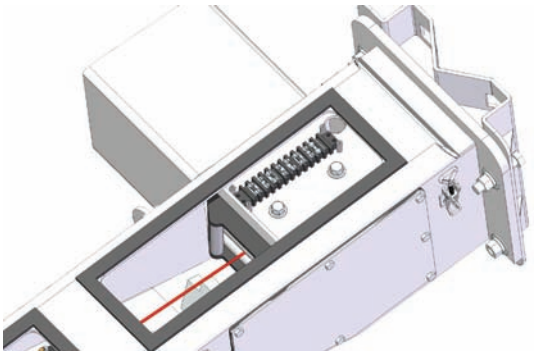


Detach side plate to access RJ45 extension. Route RJ45 cable for controller through conduit hole, located underneath CamEvator, to the internal RJ45 extension and connect. Reattach side plate.

- Placa lateral separada para tener acceso a la extensión RJ45. Encamine el cable RJ45 para el regulador a través del agujero del conducto, situado por debajo CamEvator, a la extensión interna RJ45 y conecte. Reate la placa lateral.
- Plat latéral isolé pour accéder à la prolongation RJ45. Conduisez le câble RJ45 pour le contrôleur par le trou de conduit, situé sous CamEvator, à la prolongation RJ45 interne et reliez. Rattachez le plat latéral.
- Abgetrennte seitliche Platte, zum auf der Verlängerung RJ45 zurückzugreifen. Verlegen Sie das Kabel RJ45 für Steuerpult durch Rohrloch, gelegen unter CamEvator, auf der internen Verlängerung RJ45 und schließen Sie an. Befestigen Sie seitliche Platte wieder.
- Placa lateral destacada para alcançar a extensão RJ45. Distribua o cabo RJ45 para o controlador através do furo da canalização, situado debaixo de CamEvator, à extensão RJ45 interna e conecte-o. Reate a placa lateral.
- Piatto laterale distaccato per accedere all'estensione RJ45. Diriga il cavo RJ45 per il regolatore attraverso il foro del condotto, situato sotto CamEvator, all'estensione interna RJ45 e colleghi. Riattacchi il piatto laterale.

9 Wiring Connections

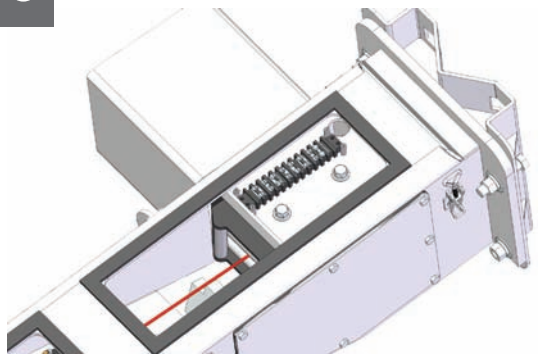


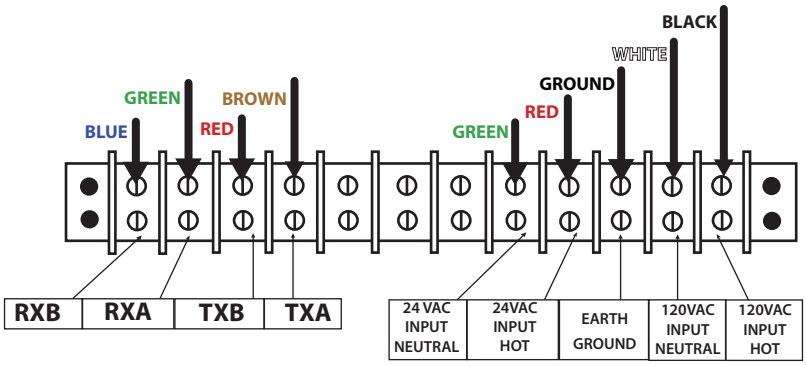


Remove the electrical protective cover by removing the four screws. Be sure to replace once the connections are made.

- Quite la cubierta protectora eléctrica quitando los cuatro tornillos. Esté seguro de substituir una vez que se hacen las conexiones.
- Enlevez le dispositif de couverture électrique en enlevant les quatre vis. Soyez sûr de remplacer une fois que les rapports sont établis.
- Entfernen Sie den elektrischen Schutzüberzug, indem Sie die vier Schrauben entfernen. Seien Sie sicher zu ersetzen, sobald die Beziehungen hergestellt werden.
- Remova a tampa protetora elétrica removendo os quatro parafusos. Seja certo substituir uma vez que as conexões são feitas.
- Rimuova la calotta di protezione elettrica rimuovendo le quattro viti. Sia sicuro sostituire una volta che i collegamenti sono fatti

10 Wiring Connections

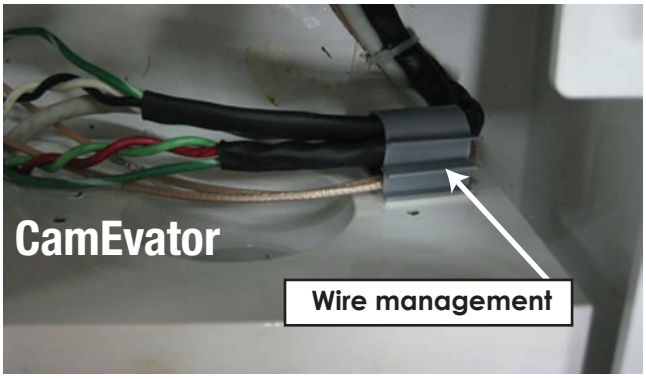


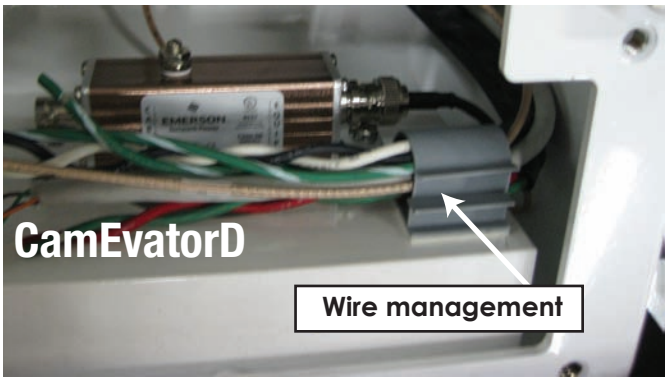


Connect appropriate gauge wire to the terminal block. Make sure the earth ground is sufficient in gauge. Be sure to replace protective cover once wiring is complete.

- Conecte el alambre apropiado del calibrador con el bloque de terminales. Cerciórese de que la tierra de la tierra sea suficiente en calibrador. Esté seguro de substituir la cubierta protectora una vez que el cableado es completo.
- Reliez le fil approprié de mesure au TB. Assurez-vous que l'au sol de la terre est suffisant dans la mesure. Soyez sûr de remplacer le dispositif de couverture une fois que le câblage est complet.
- Schließen Sie passenden Lehrendraht an den Klemmenblock an. Stellen Sie sicher, dass der Erdeboden in der Lehre genügend ist. Seien Sie sicher, Schutzüberzug zu ersetzen, sobald Verdrahtung komplett ist.
- Conecte o fio apropriado do calibre ao bloco terminal. Certifique-se que a terra da terra é suficiente no calibre. Seja certo substituir a tampa protetora uma vez que a fiação está completa.
- Colleghi il legare adatto del calibro al blocchetto terminali. Assicuri che la terra della terra sia sufficiente in calibro. Sia sicuro sostituire la calotta di protezione una volta che i collegamenti sono completi.

11 WARNING!





Once cables have been attached to camera or surge suppression, place excess wire into provide wire management hook. This will prevent cables from become entangled in moving parts.

- Una vez que los cables se han atado a la cámara o aflojan la supresión, coloque exceso del alambre en proporcionan el gancho de la gerencia del alambre. Esto evitará que los cables se enredados en piezas móviles.
- Une fois que des câbles ont été attachés à l'appareil-photo ou augmentent la suppression, placez le fil excessif dans fournissent le crochet de gestion de fil. Ceci empêchera des câbles de de devenir empêtrés dans les pièces mobiles.
- Sobald Kabel zur Kamera angebracht worden oder Ausgleich schwanken sind, setzen Sie überschüssigen Draht in zur Verfügung stellen Drahtmanagementhaken. Dieses verhindert, dass Kabel in beweglichen Teilen verwickelt geworden.
- Uma vez que os cabos foram unidos à câmera ou afluem a supressão, coloc o fio adicional em fornecem o gancho da gerência do fio. Isto impedirá que os cabos se tornem complicados nas peças moventes.
- Una volta che i cavi sono stati attaccati alla macchina fotografica o si sollevano la soppressione, disponga il legare eccedente in forniscono il gancio dell'amministrazione del legare. Ciò impedirà i cavi stato impigliata nei pezzi mobili.

PA40D Models Only

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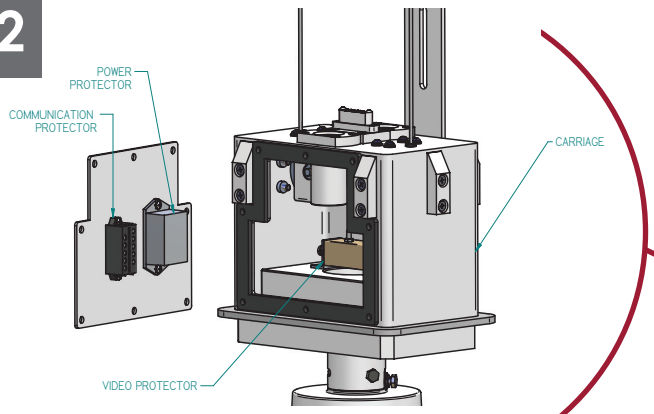
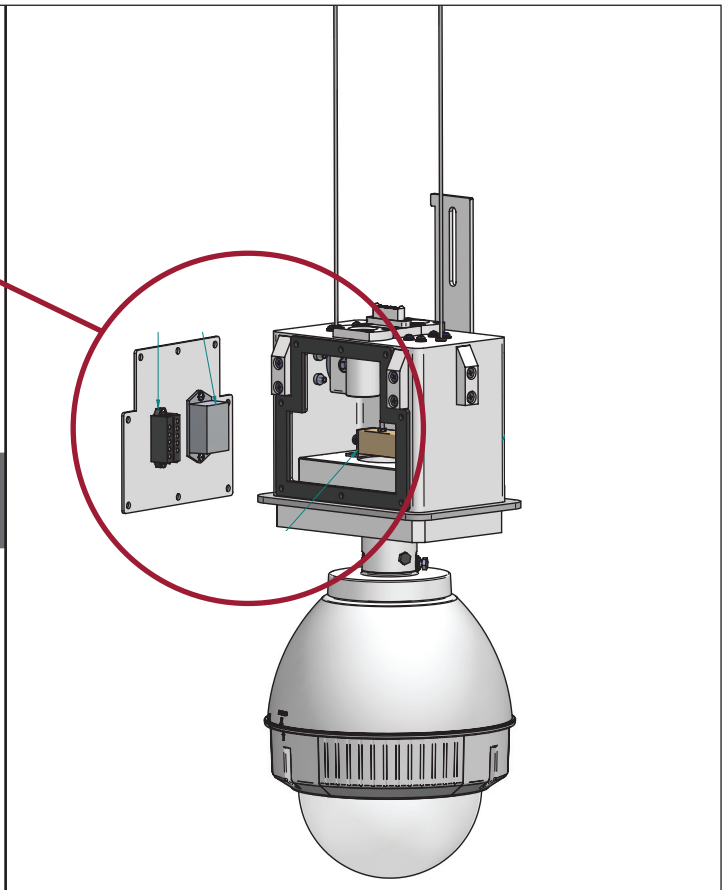


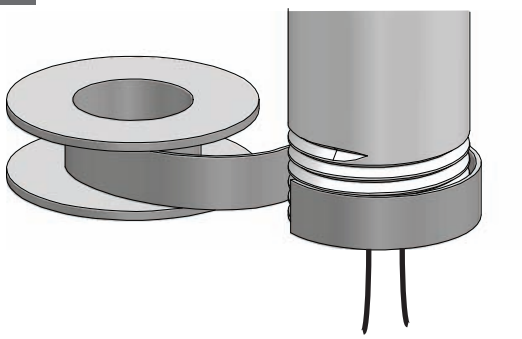


Using control box, lower CamEvator carriage. Remove screws that secure the side plate. Make connection to the surge suppressors located in the carriage and on the carriage door.

- Usando la caja de control, un carro más bajo CamEvator. Quite los tornillos ese seguro la placa lateral. Haga la conexión a las amortiguadores de onda situadas en el carro y en la puerta del carro.
- Utilisant la boîte de commande, chariot CamEvator inférieur. Enlevez les vis ce bloqué le plat latéral. Établissez le rapport aux dispositifs antiparasites de montée subite situés dans le chariot et sur la porte de chariot.
- Unter Verwendung des Steuerkastens untererer Wagen CamEvator. Entfernen Sie Schrauben dieses sichere die seitliche Platte. Stellen Sie Beziehung zu den Schwankungsentstörern her, die im Wagen und auf der Wagentür gelegen sind.
- Usando a caixa de controle, mais baixa carruagem CamEvator. Remova os parafusos esse seguro a placa lateral. Faça a conexão aos supressores de impulso situados na carruagem e na porta da carruagem.
- Per mezzo della cassetta di controllo, carrello più basso CamEvator. Rimuova le viti quel sicuro il piatto laterale. Faccia il collegamento ai limitatori di sovracorrente situati nel carrello e sul portello del carrello.

Enclosure Installation (Pendant Mount) -Sold Separately

13

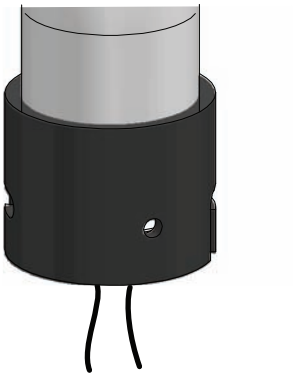


Wrap Teflon™ tape around the pipe threads to ensure a tight seal.

- La cinta del Teflon del abrigo alrededor de la pipa rosca para asegurar un sello apretado.
- La bande de teflon d'enveloppe autour de la pipe filète pour assurer un joint serré.
- Verpackung Teflonklebeband um das Rohr verlegt, um eine feste Dichtung sicherzustellen.
- A fita adesiva do Teflon do envoltório em torno da tubulação enfía para assegurar um selo apertado.
- Il nastro del Teflon dell'involucro intorno al tubo filetta per accertare una guarnizione stretta.

Enclosure Installation (Pendant Mount) -Sold Separately

14



Screw the coupling onto the pipe threads until it is hand tight.

- Atornille el acoplador sobre los hilos de rosca de la pipa hasta que es mano firmemente.
- Vissez le couplage sur les fils de pipe jusqu'à ce que ce soit main fortement.
- Schrauben Sie die Koppelung auf die Rohrgewinde, bis es Hand fest ist.
- Parafuse o acoplamento nas linhas da tubulação até que esteja mão firmemente.
- Avviti l'accoppiamento sui filetti del tubo fino a che non sia fortemente mano.

Enclosure Installation (Pendant Mount) -Sold Separately

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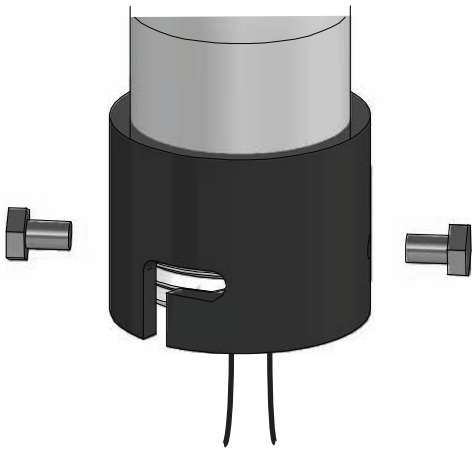
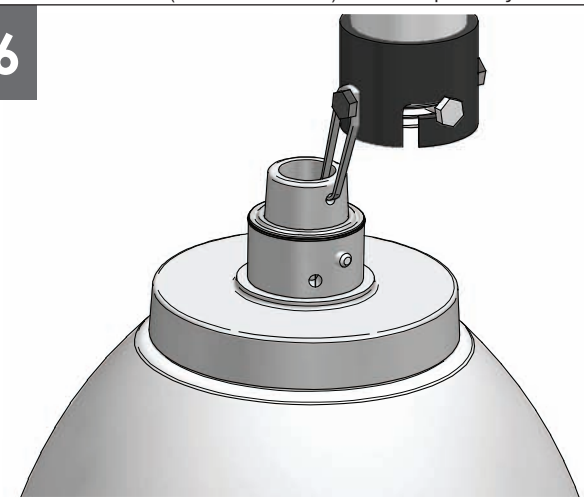


Screw the (2) bolts into the coupling.

- Atornille (2) los pernos en el acoplador.
- Vissez (2) les boulons dans l'accouplement.
- Schrauben Sie die (2) Schraubbolzen in die Koppelung.
- Parafuse (2) os parafusos no acoplamento.
- Avviti (2) i bulloni nell'accoppiamento.

Enclosure Installation (Pendant Mount) -Sold Separately

16

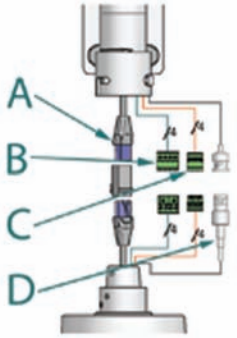


Loop the lanyard over the set screw to temporarily hold housing.

- Coloque el acollador sobre el tornillo de presión para celebrar temporalmente la cubierta.
- Faites une boucle la lanière au-dessus de la vis de réglage pour tenir temporairement le logement.
- Schlingen Sie die Abzuglinie über der Klemmschraube, um Gehäuse vorübergehend zu halten.
- Dê laços no colhedor sobre o parafuso de fixação para prender temporariamente a carcaça.
- Colleghi la cordicella in circuito sopra la vite di arresto temporaneamente per tenere l'alloggiamento.

Enclosure Installation (Pendant Mount) -Sold Separately

17



A RJ45

B

24VAC			POWER
1	Camera	Red	27 Watts
2	Camera	Orange	
3	Heater/Blower	Yellow	26 Watts
4	Heater/Blower	Green	

C

1/0		
1	Alarm 1	Blue
2	Alarm 2	Violet
3	Alarm 3	Gray
4	Common	White

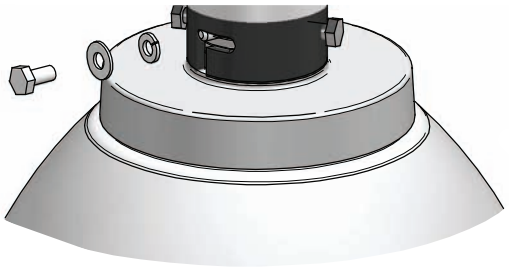
D BNC

Make the appropriate male and female connections.

- Haga las conexiones masculinas y femeninas apropiadas.
- Établissez les rapports masculins et femelles appropriés.
- Stellen Sie die passenden männlichen und weiblichen Beziehungen her.
- Faça as conexões masculinas e fêmeas apropriadas.
- Faccia i collegamenti maschii e femminili adatti.

Enclosure Installation (Pendant Mount) -Sold Separately

18



Undo the lanyard, pull housing up and twist secure with the locking bolt and washers.

- Deshaga el acollador, tire de contener para arriba y tuerza seguro con el perno y las arandelas de fijación.
- Défaites la lanière, tirez loger vers le haut et tordez bloqué avec le boulon et les rondelles de fermeture.
- Annulieren Sie die Abzuglinie, ziehen Sie oben unterbringen und verdrehen Sie sicheres mit dem verriegelnschraubbolzen und den Unterlegscheiben.
- Undo o colhedor, puxe abrigar acima e torça seguro com o parafuso e as arruelas travando.
- Undo la cordicella, tiri l'alloggio in su e torca sicuro con il bullone e le rondelle di bloccaggio.

CamEvatorD Models Only

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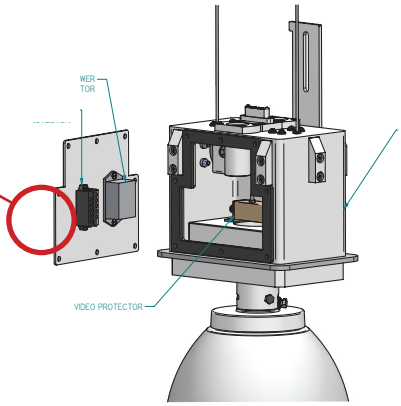
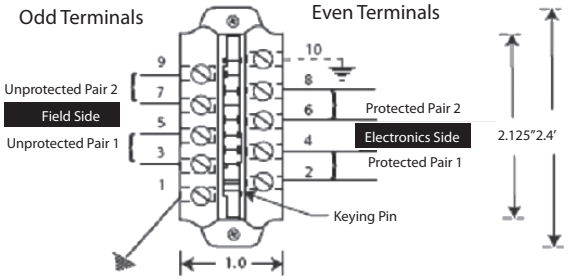




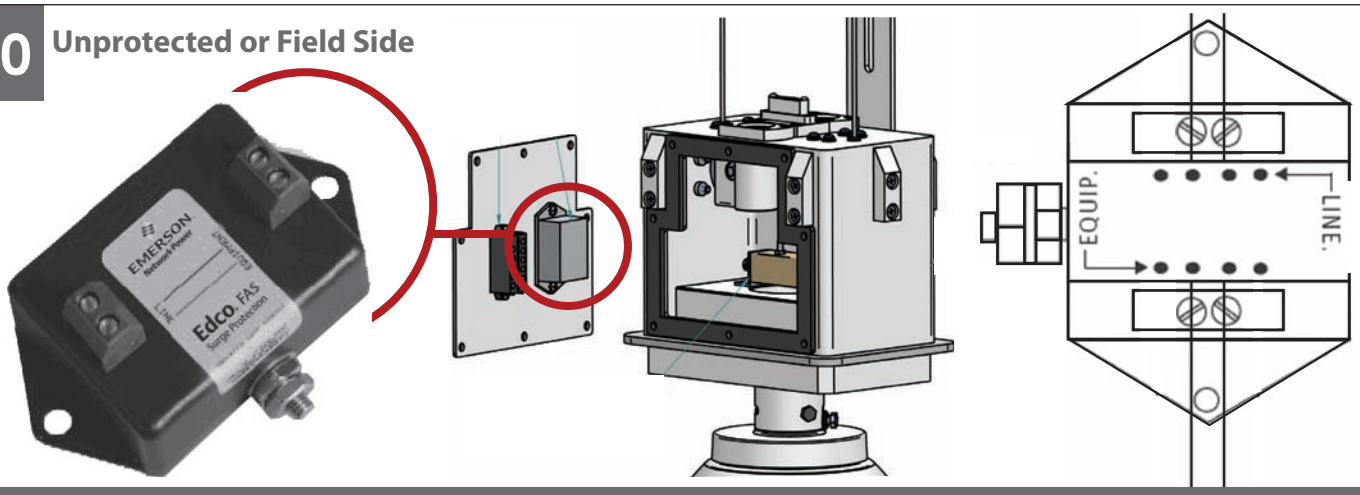
Brown	TXA	terminal 9
Orange	TXB	terminal 7
Green	RXA	terminal 5
Blue	RXB	terminal 3

Ground Terminal 1 or 10 to Building Approved Ground

Connect the dome communication wires to the "Protected Pair" of the surge protector. Connect CamEvator wires to the "Unprotected pair". Use the following order for the CamEvator wires. Refer to the camera dome installation instruction for communication wire color,

- Conecte los alambres de la comunicación de la bóveda con los "pares protegidos" del protector de oleada. Conecte los alambres CamEvator con los "pares desprotegidos". Utilice la orden siguiente para los alambres CamEvator. Refiera a la instrucción de instalación de la bóveda de la cámara para el color del alambre de la comunicación.
- Reliez les fils de communication de dôme « aux paires protégées » du protecteur de montée subite. Reliez les fils CamEvator « aux paires non protégées ». Employez l'ordre suivant pour les fils CamEvator. Référez-vous à l'instruction d'installation de dôme d'appareil-photo pour la couleur de fil de communication.
- Schließen Sie die Haubekommunikationsdrähte an die „geschützten Paare" des Überspannungsableiters an. Schließen Sie Drähte CamEvator an die „ungeschützten Paare" an. Verwenden Sie den folgenden Auftrag für die Drähte CamEvator. Beziehen Sie sich die auf Kamerahaube-Montagevorschrift für Kommunikationsdrahtfarbe.
- Conecte os fios de uma comunicação da abóbada "aos pares protegidos" do protetor de impulso. Conecte os fios CamEvator "aos pares desprotegidos". Use a seguinte ordem para os fios CamEvator. Refira a instrução de instalação da abóbada da câmera para a cor do fio de uma comunicação.
- Colleghi i legare di comunicazione della cupola "agli accoppiamenti protettivi„ della protezione di impulso. Colleghi i legare CamEvator "agli accoppiamenti non protetti„. Usi il seguente ordine per i legare CamEvator. Riferisca all'istruzione di installazione della cupola della macchina fotografica per colore del legare di comunicazione.

20 Unprotected or Field Side



Connect the RED wire and GREEN wire to the "LINE" of the surge protector. Connect the dome and camera power to the "EQUIP" side. Attach ground wire to ground stud, use green wire with white trace. Refer to the camera dome installation manual for conductor colors.

- Conecte el alambre ROJO y el alambre VERDE con la "LÍNEA" del protector de oleada. Conecte la bóveda y la energía de la cámara a "EQUIPA" el lado. Ate el alambre de tierra al perno prisionero de tierra, utilice el alambre verde con el rastro blanco. Refiera al manual de la instalación de la bóveda de la cámara para los colores del conductor.
- Reliez le fil ROUGE et le fil VERT à la « LIGNE » du protecteur de montée subite. Reliez le dôme et la puissance d'appareil-photo au « ÉQUIPENT » le côté. Attachez le fil de masse au goujon moulu, employez le fil vert avec la trace blanche. Référez-vous au manuel d'installation de dôme d'appareil-photo pour des couleurs de conducteur.
- Schließen Sie den ROTEN Draht und GRÜNEN Draht an die „LINIE" des Überspannungsableiters an. Schließen Sie die Haube an und Kameraenergie zu „RÜSTEN" Seite aus. Bringen Sie Erdungsdraht zum Grundbolzen an, benutzen Sie grünen Draht mit weißer Spur. Beziehen Sie sich das auf Kamerahaubeinstallationshandbuch für Leiterfarben.
- Conecte o fio VERMELHO e o fio VERDE à "LINHA" do protetor de impulso. Conecte a abóbada e o poder da câmera ao "EQUIPA" o lado. Una o fio à terra ao parafuso prisioneiro à terra, use o fio verde com traço branco. Refira o manual da instalação da abóbada da câmera para cores do condutor.
- Colleghi il legare ROSSO ed il legare VERDE "alla LINEA„ della protezione di impulso. Colleghi la cupola ed il potere della macchina fotografica al "DOTA„ il lato. Attacchi il filo di messa a terra alla vite prigioniera a terra, usi il legare verde con la traccia bianca. Riferisca al manuale dell'installazione della cupola della macchina fotografica per i colori del conduttore.

CamEvatorD Models Only

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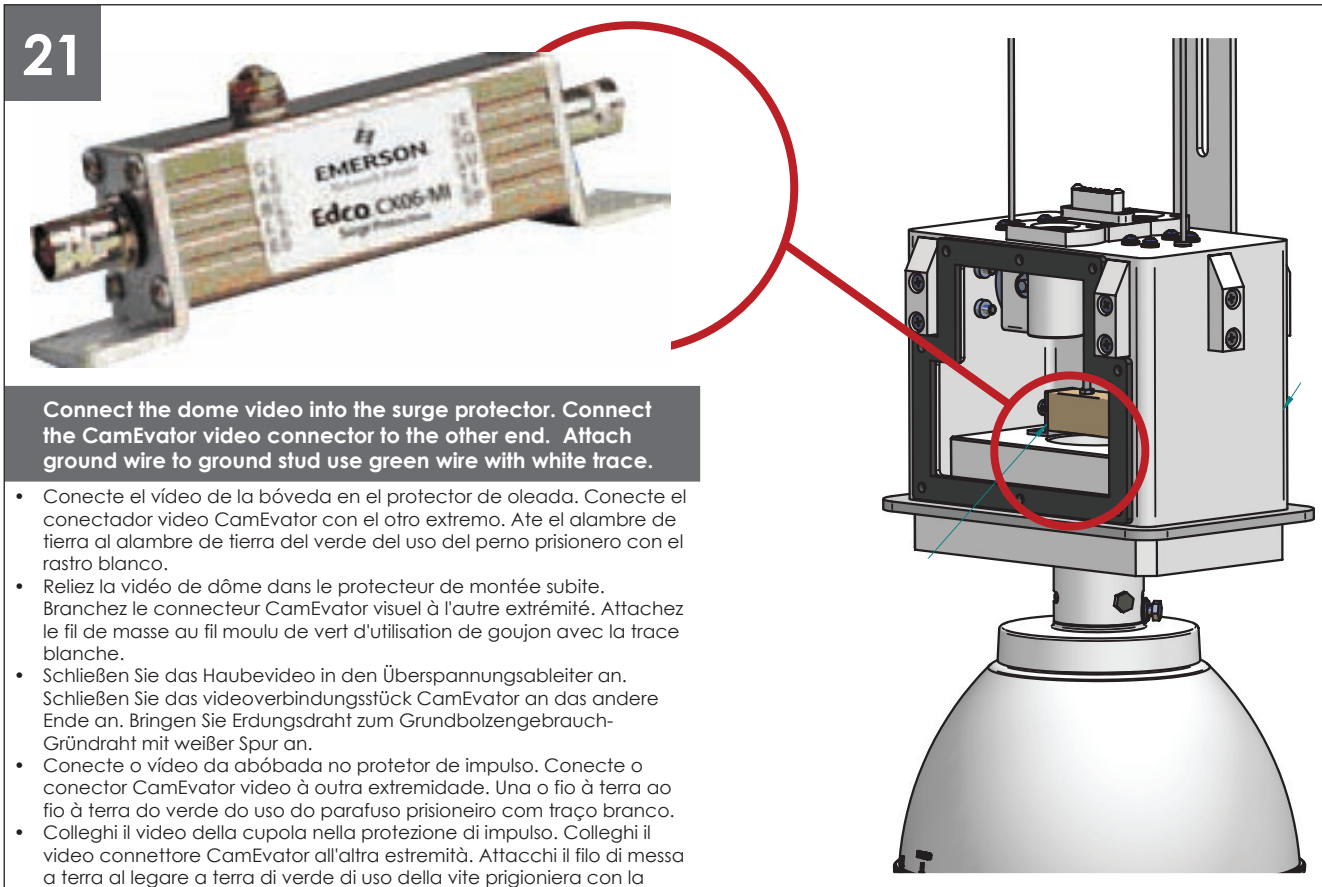
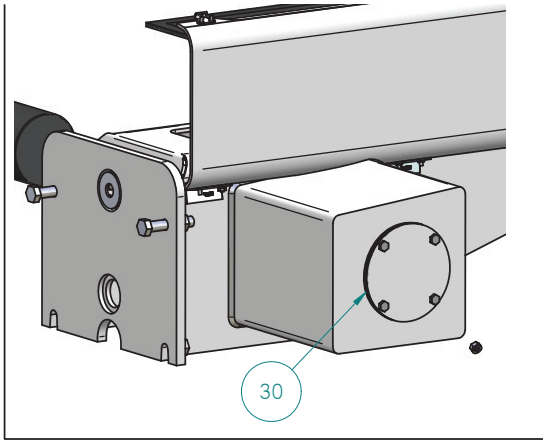
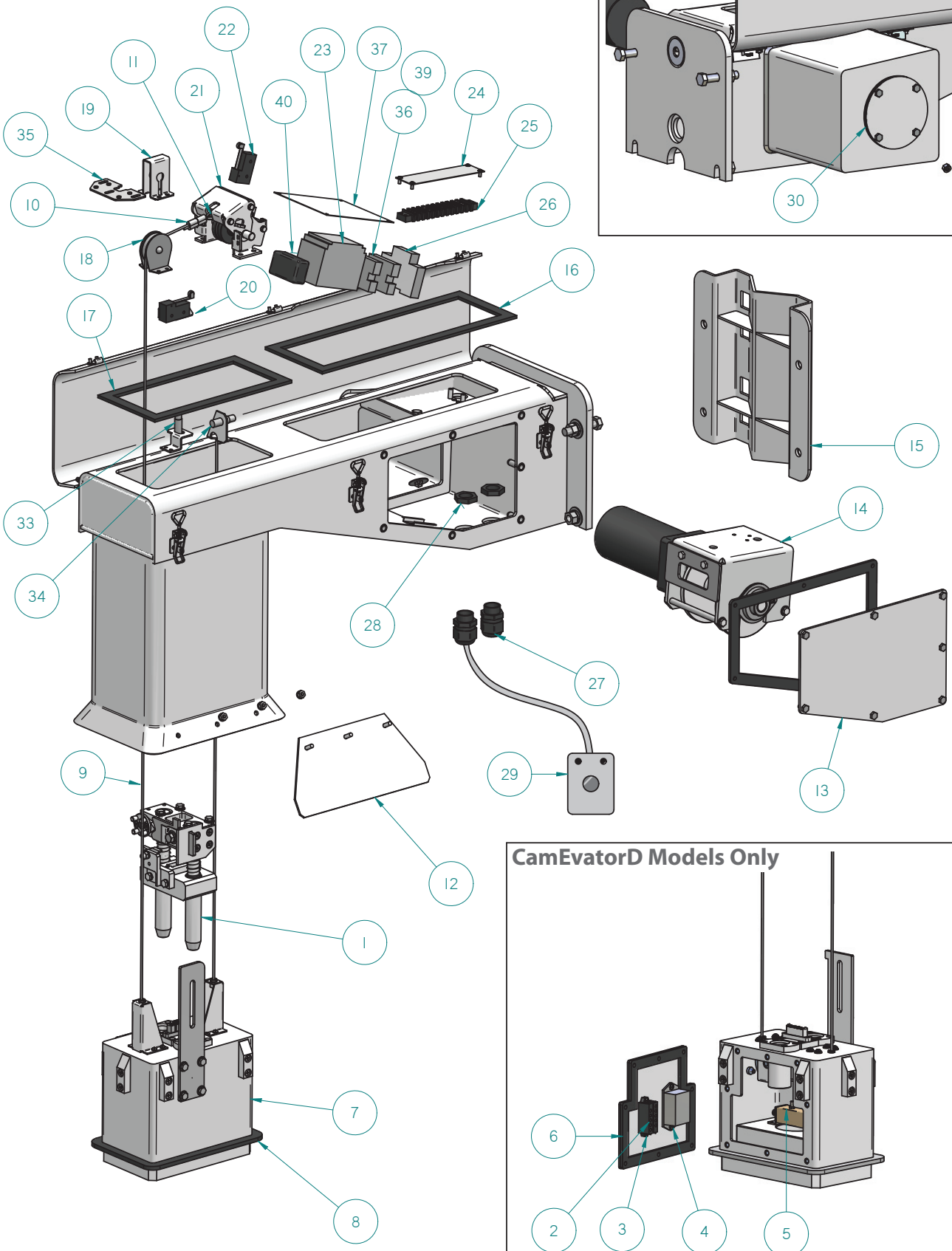


Connect the dome video into the surge protector. Connect the CamEvator video connector to the other end. Attach ground wire to ground stud use green wire with white trace.

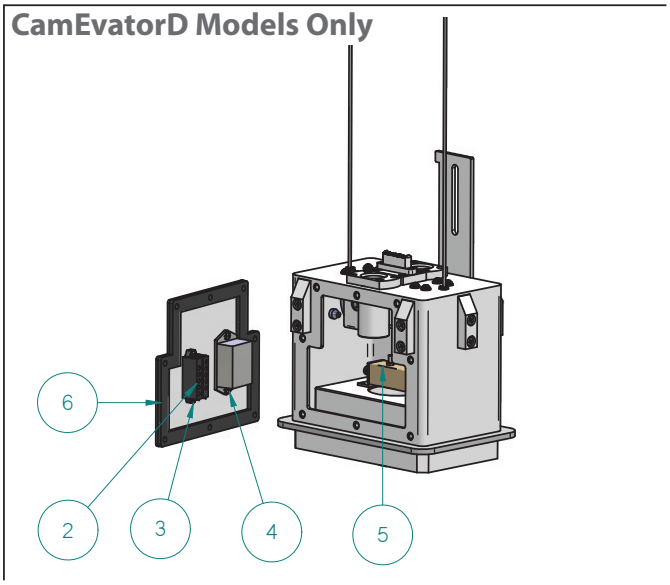
- Conecte el vídeo de la bóveda en el protector de oleada. Conecte el conectador video CamEvator con el otro extremo. Ate el alambre de tierra al alambre de tierra del verde del uso del perno prisionero con el rastro blanco.
- Reliez la vidéo de dôme dans le protecteur de montée subite. Branchez le connecteur CamEvator visuel à l'autre extrémité. Attachez le fil de masse au fil moulu de vert d'utilisation de goujon avec la trace blanche.
- Schließen Sie das Haubevideo in den Überspannungsableiter an. Schließen Sie das videoverbindungsstück CamEvator an das andere Ende an. Bringen Sie Erdungsdraht zum Grundbolzengebrauch-Gründraht mit weißer Spur an.
- Conecte o vídeo da abóbada no protetor de impulso. Conecte o conector CamEvator video à outra extremidade. Una o fio à terra ao fio à terra do verde do uso do parafuso prisioneiro com traço branco.
- Colleghi il video della cupola nella protezione di impulso. Colleghi il video connettore CamEvator all'altra estremità. Attacchi il filo di messa a terra al legare a terra di verde di uso della vite prigioniera con la traccia bianca.

Replacement Parts List





CamEvatorD Models Only



Replacement Parts List

PA40 Lowering Arm

	PART #	DESCRIPTION
1	RPVL3422	LOCKING MECHANISM ASSEMBLY
2	RPSPPA403	EDCO COMM PROTECTOR
3	RPSPA401	EDCO COMM SOCKET
4	RPSPPA402	EDCO POWER PROTECTOR
5	RPSPPA401	EDCO VIDEO PROTECTOR
6	RPJBOX	JUNCTION BOX DOOR KIT
7	RPVL3272	CARRIAGE ASSEMBLY
8	RPGK3397	JUNCTION BOX BOTTOM SEALING
9	RPPVWROP	304 SS STEEL ROPE
10	RPPVSLVE	OVAL SLEEVE FOR 1/8 DIA ROPE
11	RPPVTHMB	304 SS WIRE ROPE THIMBLE
12	RPVL3444	ANTISWAY PLATE
13	RPWDR	WINCH ACCESS DOOR KIT
14	RPPVWNCH	WINCH
15	RPVL3332	POLE MOUNT BRACKET
16	RPGK3393	BACK ACCESS DOOR SEALING
17	RPGK3347	ARM ACCESS DOOR SEALING
18	RPPVPULY	PULLEY
19	RPVL3234	WIRE SHIELD
20	RP7090K38	SNAP ACTING SWITCH
21	RPVL3530	TENSION MECHANISM
22	RP7090K38	SNAP ACTING SWITCH
23	RPPANPLC	PLC
24	RPVL3569	CONNECTOR SHIELD
25	RPWPTB7	TERMINAL BLOCK CONNECTOR
26	RPSPPA404	EDCO 120V SURGE PROTECTOR
27	RPFSRT21	LIQUID TIGHT CORD GRIP
28	RPFSSR11	LOCK NUT
29	RPCBPA40	CONTROL BOX
30	RPFSDR	FUSE ACCESS DOOR KIT
31	RPBAB34	HARDWARE FOR 3/4 SS BAND STRAPPING
32	RPSPBS01	3/4"x0.030" 201 SS BAND STRAPPING
33	RPVL248858	TS12-02N SENSOR
34	RPVLAAPAL2	7 mm PROXIMITY SENSOR XS212AAPAL2
35	RPVL3750	TWIST SWITCH MOUNTING BRACKET SUBASSEMBLY
36	RPRELAY02	SOCKET WITH RELAY
37	RPVL4011	SHIELD
38	RPSLDSP	SHIELD SPACERS
39	RPSNBR	SNUBBER CIRCUIT
40	RPCAP1	MOTOR CAPACITOR

CamEvator™ Lowering Arm (Moog Videolarm; 1.800.554.1124)

Maintenance and Troubleshooting Addendum: (November 2011)

Important Note: Please read this addendum and the Installation and Operation Instruction Booklet in their entirety, prior to installing, operating or maintaining a CamEvator Lowering Arm.

This Addendum Includes Important New Information on:

- General Operating Description
- Safety
- Maintenance
- Operating
- Troubleshooting

INDEX: (for Addendum)

- CamEvator Lowering Arm General Operating Description
- Owner/Employer Responsibilities
- Safety Procedures
- Operating Guidelines
- Troubleshooting
- Preventive Maintenance Schedule

CamEvator Lowering Arm General Description:

The CamEvator Lowering arm is a device for improving the installation and servicing of overhead cameras and select video equipment. It allows operators and maintenance personnel the ability to lower equipment to ground level for servicing.

The lowering arm ships from the factory fully assembled, tested and ready for installation and use. By following the installation procedures which includes mechanical attachment, power (120Vac; including mandatory GROUND connections), video terminations and camera installation; the lowering arm will be ready for use.

The lowering arm is equipped with a two-way motor that provides the electric actuated lowering and raising operations. The lowering arm is operated on the ground by the operator through the use of an operator interface key actuated box. The key switch is spring loaded and must be held in the raise or lower position to operate the lowering arm. Releasing the key switch will discontinue raising or lowering of the arm.

The payload is raised and lowered by a gear motor and a 2-cable lift system. 1 end of the cable is wrapped around the rotating lifting and storage spool and the other end of the cable is found at a fixed termination in the housing. The camera is lifted at ½ the speed of the spool rotation, due to the dual cable nomenclature. This also allows the entire lifting weight to be equalized and shared by each lifting cable.

When the Lowering Arm (carriage/payload) is properly stowed in its full up home position, the weight of the carriage and camera payload is held by a solid Stainless Steel retaining bar, not the lifting cable. The cables are holding the payload weight only during raising and lowering and never while in a static condition when properly stowed in the lifting arm housing at full home position.

The Lowering Arm is very low maintenance, however, MOOG recommends a series of maintenance and operational checks while on-site operating or servicing the camera to ensure continued safe and long-term operation of the lowering arm. Please refer to the Maintenance section for further information. In the event you encounter operating difficulty with your CamEvator Lowering Arm, refer to the Maintenance, Troubleshooting sections of this manual. If your difficulty persists or there is an unsafe condition, immediately contact MOOG Videolarm at 1.800.554.1124.

MOOG VIDEOLARM

Owner/Employer Responsibilities:

- Ensure that all Lowering Arm operators are qualified and that they are trained in the safe use and operation of the lift using the recommended manufacturers operating instructions.
- Establish procedures to periodically inspect the lowering arm in accordance with the lift manufacturer's instructions by inspectors that are qualified and that they are adequately trained in the inspection of the lift.
- Establish procedures to periodically maintain the lowering arm in accordance with the lift manufacturer's instructions by maintenance personnel that are qualified and that they are adequately trained in the maintenance of the lift.
- Maintain the periodic inspection and maintenance records recommended by the manufacturer.
- Display the lowering arm manufacturers operating instructions in a conspicuous location, convenient to the lowering arm operators.
- Provide necessary Lock-Out/Tag-Out means for energy sources.

Safety Procedures:

- Do not allow unauthorized persons to operate the lowering arm. Thoroughly train new operating personnel in the use and care of the lowering arm.
- Use Caution at all times. The lift is actuated by an electric powered lifting motor.
- NEVER lift any payload other than securely attached video payload equipment (Max 35# payload).
- Prohibit any unauthorized persons from being in the vicinity while raising or lowering the payload.
- Ensure operators are standing at a clear distance and not directly underneath the payload in the event of clearing any falling debris.
- NEVER operate when persons, vehicles or objects could be harmed from falling payload debris underneath the lowering arm.
- Wear safety glasses and a hardhat at all times while raising and lowering the device.
- Always remain in visual contact with the payload to insure a safe and straight lift.
- Cease operating the device in winds in excess of 20mph or whenever an unstable payload is noticed.
- Ensure lift operators review safety and warning labels prior to operating Lift.

MOOG VIDEOLARM

Operating Guidelines:

- Operator control input is through the Operator Control/Interface Box.
- The operator must have a key to operate the unit.
- Hold the key in a “counter-clockwise” rotation direction to Raise the unit.
- Hold the key in a “clockwise” direction to Lower the unit.

- **Do Not allow unit to rotate or twist during hoisting –** When returning camera mount carriage up to housing, it is mandatory that the cables are not allowed to twist. If the cables do become twisted, discontinue lifting. If the cables become twisted and do not become untwisted, lower the unit to correct the cables prior to continuing to lift the unit. Resume lifting after cables have uncrossed and carriage is stable.

- **Use guide rope provision to steady load during lifting –** (especially on adverse days - i.e. – WINDY) – Use eyebolt provision or camera mount coupling area to attach a rope for stabilizing unit during lifting. Do not pull carriage off to one side or pull down hard on load. Only use rope when needed to stabilize unit as required during lifting. Remove rope after camera is fully stowed in lift housing.

- **There are (9) switches that perform various functions in the system. They are:**
  - **Over Tension Mechanical Switch –** Shuts system off if over tension condition is detected.
  - **Under Tension Mechanical Switch –** Shuts system off if under tension condition is detected.
  - **Low spool Mechanical Switch –** Shuts system off and only allows lifting direction.
  - **Carriage Home Locking Pin Electrical Proximity Switch** – Detects when the carriage locking pin is activated.
  - **Carriage at TOP position Electrical Proximity Switch** - Detects when the carriage is at home position
  - **Motor Current sensor in control box (chip on PCB Board)** – Shuts system off if over current condition is detected. Must power down and back up to continue.
  - **Thermal Circuit Breaker on winch Motor** – Shuts winch off if activated. Must reset button on winch unit.
  - **(2) Wire Rope position sensing Mechanical Switches** – Causes the system to stop lifting and pauses for 5 seconds or until allowed to continue lifting.

- **The following Conditions will cause a stop condition and require a power down and restart to correct:**
  - Activation of Motor Current sensor in control box (chip on PCB Board) - 4 RED LED Blinks on operator Control Box; Pause: then repeats).
  - (*If re-setting the power does not clear the fault and the carriage will not move up or down, the unit will require a visual inspection to insure that the locking pin is not activated prior to the carriage entering the home position – SEE BELOW.*)

- **The following conditions will cause the system to stop and require a MANDATORY cable inspection and mechanical reset of the locking pin at the unit to restart.**
  - Activation of the Carriage Home Locking Pin Electrical Proximity Switch with NO activation of Carriage at TOP position Electrical Proximity Switch - 5 RED LED Blinks on operator Control Box; Pause: then repeats).
  - (*If this condition is found, the cables have become crossed and require a full inspection for any damage, prior to activating the unit. Manually retracting the locking pin after insuring no cable or other component damage has occurred will restore activation of the system.*)

IMPORTANT OPERATING NOTE:

- **Do Not leave operator interface control box plugged in when not in use, unattended or allowed to become wet. Do Not allow the RJ45 connector for operator interface control box to become wet.**

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Troubleshooting:

- **There are (9) switches that perform various functions in the system. They are:**
  - **Over Tension Mechanical Switch –** Shuts system off if over tension condition is detected.
  - **Under Tension Mechanical Switch –** Shuts system off if under tension condition is detected.
  - **Low spool Mechanical Switch –** Shuts system off and only allows lifting direction.
  - **Carriage Home Locking Pin Electrical Proximity Switch** – Detects when the carriage locking pin is activated.
  - **Carriage at TOP position Electrical Proximity Switch** - Detects when the carriage is at home position
  - **Motor Current sensor in control box (chip on PCB Board)** – Shuts system off if over current condition is detected. Must power down and back up to continue.
  - **Thermal Circuit Breaker on winch Motor** – Shuts winch off if activated. Must reset button on winch unit.
  - **(2) Wire Rope position sensing Mechanical Switches** – Causes the system to stop lifting and pauses for 5 seconds or until allowed to continue lifting.

- **The following Conditions will cause a stop condition and require a power down and restart to correct:**
  - Activation of Motor Current sensor in control box (chip on PCB Board) - 4 RED LED Blinks on operator Control Box; Pause: then repeats).
  - (*If re-setting the power does not clear the fault and the carriage will not move up or down, the unit will require a visual inspection to insure that the locking pin is not activated prior to the carriage entering the home position – SEE BELOW.*)

- **The following conditions will cause the system to stop and require a MANDATORY cable inspection and mechanical reset of the locking pin at the unit to restart.**
  - Activation of the Carriage Home Locking Pin Electrical Proximity Switch with NO activation of Carriage at TOP position Electrical Proximity Switch - 5 RED LED Blinks on operator Control Box; Pause: then repeats).
  - (*If this condition is found, the cables have become crossed and require a full inspection for any damage, prior to activating the unit. Manually retracting the locking pin after insuring no cable or other component damage has occurred will restore activation of the system.*)

Error Codes Listed on Operator Interface Control Unit:

UNIT IS FULLY DOCKED WHEN 3 AUDIBLE BEEPS SOUND

ERROR CODES – Repeat until Error is corrected

RED LED LIGHT SYSTEM STATUS

1 BLINK - PAUSE - 1 BLINK Wire Rope Spool LOW

2 BLINKS - PAUSE - 2 BLINKS LOW Cable Tension

3 BLINKS - PAUSE - 3 BLINKS HIGH Cable Tension

4 BLINKS - PAUSE - 4 BLINKS* OVER Current Sensor Tripped*

5 BLINKS - PAUSE - 5 BLINKS** Docking Error**

* = Requires Power Reset. Cable and system unit inspection Recommended, prior to re-starting.

** = Requires MANDATORY cable, system unit inspection and home Lock sensor manual re-set prior to re-starting.

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Preventive Maintenance Schedule:

■ **Ground Level: During Each Servicing of the Camera, or raising/lowering of the payload:**

- Ensure that all camera/payload attachments are rigid, properly installed and secure.
- Watch carriage/payload system during operation for any abnormal problems.
- Visually inspect cable for any damage, degradation or corrosion.
- Visually ensure lowering arm is rigidly and properly installed and connected to structure and no "looseness" is evident during rising or lowering payload is noticeable.
- Carriage lowers and raises and enters full home position without noticeable changes or interruptions form mechanical or electrical problems.
- General observation of all equipment for proper operation and in good operating order.

■ **At Installed Elevation: During Each Servicing Lifting Arm at the elevated position; OR:**

- *No Later Than every 24 Calendar Months or 50 lowering and raising sequences, whichever comes first.*

- Disconnect Power to the unit.
- Open top of lowering arm.
- Visually inspect and ensure interior of lowering arm is free and clear of any and all debris. Clean as necessary to restore unit interior to a clean and debris free environment.
- Visually inspect for any loose or missing parts.
- Visually inspect for any rust, corrosion or degradation that will effect the unit operation.
- Thoroughly inspect lifting cable, pulleys and device for any sign of degradation or damage.
- Ensure all switches, brackets and sensors are securely seated and attached to their intended mounts and not damaged in any way.

■ **IF ANY OF THE ABOVE CONDITIONS ARE FOUND; THE LOWERING ARM MUST BE PROPERLY REPAIRED BY QUALIFIED AND TRAINED PERSONNEL PRIOR TO RETURNING TO SERVICE. Call the factory at 1.800.554.1124 FOR IMMEDIATE ASSISTANCE AT ANY TIME.**

- END -

Product Registration/Warranty

Thank you for choosing Moog Videolarm. We value your patronage and are solely committed to providing you with the highest quality products available and superior customer service.

Should a problem arise, rest assure that Moog Videolarm stands behind its products by offering impressive warranty plans: 3 Years on all Housings, Poles, Power Supplies, and Accessories and 5 Years on camera systems (SView, QView, Warriors), and InfraRed Illuminators.

Register Your Products Online

Take a few moments and validate your purchase via the Online Product Registration Form at

www.videolarm.com/productregistration.jsp

Register your recent Moog Videolarm purchases and benefit from the following:

- Simple and Trouble-Free RMA process
- Added into customer database to receive product updates / news
- Eliminate the need to archive original purchase documents: Receipts, Purchase Orders, etc…